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ANNUAL REPORT

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**SAN FRANCISCO
FIRE
DEPARTMENT**

**FIRE ^I
COMMISSION**

**President
RUDY THAM**

**Vice President
MORRIS BERNSTEIN**

**Commissioner
FRANK HUNT**

**CHIEF OF
DEPARTMENT
KEITH P. CALDEN**

0
REF
352.3
Sa 523a
JULY - JUNE
1971 - 1974



Honorable
JOSEPH L. ALIOTO
MAYOR
F I R E C O M M I S S I O N



Honorable
FRANK HUNT
Commissioner

Honorable
MORRIS BERNSTEIN
Vice President

Honorable
RUDY THAM
President



RAYMOND G. CONNORS, JR.
Secretary

SAN FRANCISCO FIRE DEPARTMENT



KEITH P. CALDEN
CHIEF OF DEPARTMENT



CLARENCE G. ROSENSTOCK
DEPUTY CHIEF OF DEPARTMENT

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CHIEF OF DEPARTMENT



CITY AND COUNTY OF SAN FRANCISCO
SAN FRANCISCO FIRE DEPARTMENT

OFFICE
CHIEF OF DEPARTMENT



260 GOLDEN GATE AVE.
SAN FRANCISCO CA. 94102

September 5, 1972

Honorable President and Members
of the Fire Commission
San Francisco Fire Department
260 Golden Gate Avenue
San Francisco, California 94102

Gentlemen:

It is a pleasure to submit herewith the Annual Report of the San Francisco Fire Department for the Fiscal Year 1971-72. This report is forwarded in accordance with the provisions of Section 3.501 of the Charter of the City and County of San Francisco.

A narrative and statistical review is provided by a comprehensive summary of the Department's activities during the past fiscal year. Basic accomplishments of each Division, Bureau, Committee and program are included.

Personnel of the Fire Department continued to sustain their reputation for efficiency and dedication to duty. Members of the Fire Fighting Force performed courageous and outstanding service in connection with fire and other emergency operations.

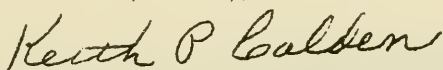
During the period reported, our fire and other emergency alarms totaled 30,292. This is a slight decrease of 435 from the previous fiscal year, but it is 10% below 1969-70, during which time occurred the most responses in the history of our department. This downward trend may well be attributed to an aggressive fire prevention program and public education approach.

Our false alarms amounted to 11,356. This figure is a 3.8% reduction from the previous fiscal year and is 17.6% less than 1969-70. We believe this fall-off, coupled with less harassment, was attained by effective lines of communication established with community groups through the efforts of the Fire Safety Technicians; the F.L.A.M.E. Program for juveniles, visits to fire stations by groups of children accompanied by adults, the School Visitation Program, and a special signal that provides limited response to high-incidence false alarm areas.

The highlight of the year was the passage of our November Bond Issue. This will provide new fire fighting apparatus, equipment and a modernized alarm and field control system. The Low and High Pressure Water Systems for fire protection will be improved. Very little cost will be borne by the taxpayer, and the City's insurance premiums will be guarded.

I wish to express my sincere thanks to your Honorable Commission, to the Mayor, to the Board of Supervisors and to other officials for their cooperation and assistance. Appreciation is also extended public spirited citizens, civic organizations, the press, radio and television for their support and interest.

Respectfully,

A handwritten signature in cursive script that reads "Keith P. Calden". The signature is written in dark ink and is positioned above the printed name and title.

Keith P. Calden
Chief of Department

Encl.

ADMINISTRATION



ADMINISTRATION

CHIEF STAFF OFFICERS

Specialized Auxiliary Service

SAN FRANCISCO FIRE DEPARTMENT

Headquarters
260 Golden Gate Avenue

Division of Administration	Room 225
Joseph P. Daly - Assistant Chief of Department	
Division of Fire Prevention and Investigation	Room 327
Emmett D. Condon - Assistant Chief of Department	
Division of Planning and Research	Room 210
Rene A. Gautier - Assistant Chief of Department	
Disaster Corps	Room 312
(Fire Reserve) Edmund P. Erlwin - Battalion Chief	
(Emergency Services) Lee L. Cavallini - Battalion Chief	
(Fire Coordinator)	
Bureau of Community Relations	Room 309
Earl J. Gage	

Division of Training	2310 Folsom Street
Charles W. Carli - Assistant Chief of Department	
Bureau of Assignments and Communications	1003 Turk Street
William J. Graham - Battalion Chief	
Bureau of Equipment	909 Tennessee Street
Clayton B. Frazee - Captain	

ADMINISTRATION

PERSONNEL

Employments

The total number of authorized employments for the Fire Department totaled 1814 for the fiscal year 1971-1972. This was an increase of 14 above 1970-1971. The total Fire Department authorized employments for 1971-1972 is detailed as follows:

UNIFORMED FORCE

1 Chief of Department
1 Deputy Chief of Department
15 Assistant Chief of Department
45 Battalion Chief
85 Captain
228 Lieutenant
58 Chief's Operator
1287 Firemen
3 Pilot-Fireboat
4 Marine Engineer-Fireboat
2 Captain-Bur. Fire Prevention
3 Lieutenant-Bur. Fire Prevention
27 Inspector-Bur. Fire Prevention
1 Lieutenant-Bur. Fire Invest.
7 Investigator-Bur. Fire Invest.

1767 Total - Uniform Force - 96.8%

NON-UNIFORMED FORCE

Headquarters Office

3 Fire Commissioner
1 Secretary-Fire Commission
1 Physician (Part Time)
1 Principal Accountant
1 Senior Payroll & Personnel Clerk
2 Payroll & Personnel Clerk
2 Senior Clerk Stenographer
1 Principal Clerk Stenographer
2 Senior Clerk Typist
3 Clerk Typist
1 Accountant
1 Clerk Stenographer

19 Total - Headquarters Office

Bur. Eng. and Water Supply

1 Supt. Bureau Water Supply
1 Foreman-Bur. Water Supply
1 Sub-Foreman-Bur. Water Supply
2 Chief Stationary Engineer
6 Stationary Engineer
1 Stationary Engineer (Relief)
8 Jr. Stationary Engineer
1 Jr. Stationary Engineer (Relief)
14 Utility Plumber
3 General Laborer

38 Total - Bur. Eng. & Water Supply

57 Total - Non-Uniform - 3.2%

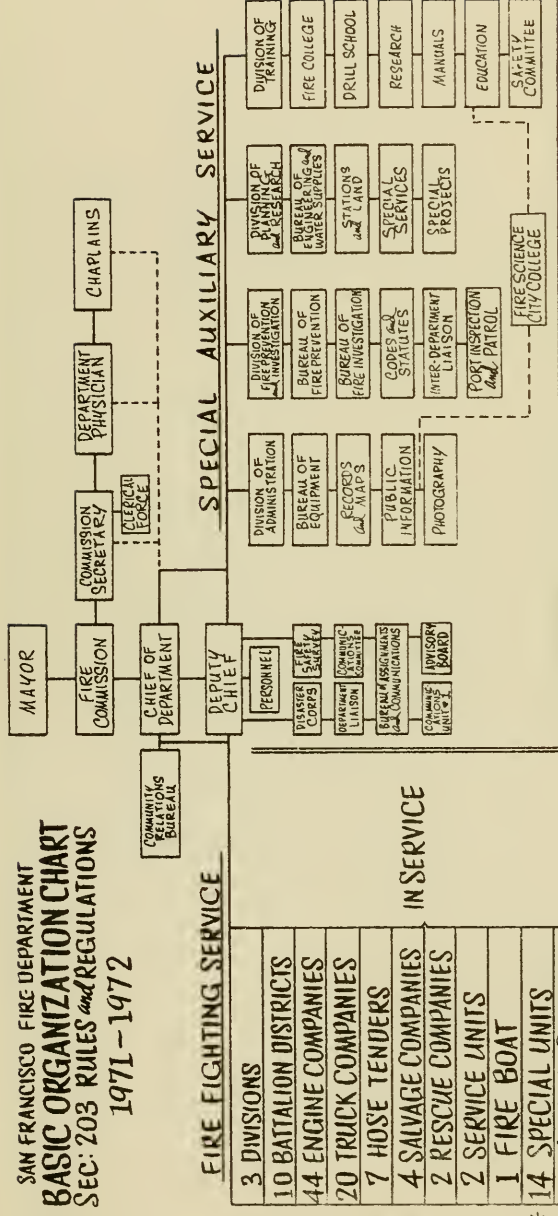
TOTAL EMPLOYMENTS

July 1, 1971

1824

Specific Assignments of these employments are detailed on the authorized personnel assignment chart preceding this page.

1971-1972



1 AIRPORT SECTION		ENGINES		TRUCKS		H.T.		F.B.		SPECIAL UNITS	
DIVISION #1	BATTALION #1	4 STATIONS	1 - 5 - 28 - 41	2 - 13	8				VALVE UNIT	FOAM UNIT #1	
	BATTALION #2	4 STATIONS	6 - 14 - 27 - 29	6					WATER TOWER #4	FUEL UNIT	HI-EX F.O. UNIT #2
	BATTALION #3	5 STATIONS	4 - 17 - 19 - 35 - 48	1 - 8	1 - 4	1	1		WATER TOWER #1	AIR COMPRESSOR	COFFEE UNIT
	BATTALION #4	4 STATIONS	3 - 8 - 15 - 20	3 - 4 - 16	7	2	2		SERVICE UNIT 1		
	BATTALION #5	4 STATIONS	21 - 26 - 34 - 40	5 - 10 - 12	5				SEARCH LIGHTS #2	DIESEL FUEL UNIT	
DIVISION #2	BATTALION #7	4 STATIONS	22 - 36 - 46 - 47	14							
	BATTALION #8	4 STATIONS	23 - 44 - 45 - 49	18 - 20					SERVICE UNIT 2		
	BATTALION #6	5 STATIONS	7 - 10 - 13 - 24 - 37	7 - 9 - 11	6	4					
	BATTALION #9	5 STATIONS	30 - 33 - 38 - 39 - 43	15 - 19							
	BATTALION #10	5 STATIONS	11 - 18 - 25 - 32 - 42	17	3						
DIVISION #3	AIRPORT	2 STATIONS									
			AIRPORT	RESCUE COMPANIES	1 and 2						
			SAVAGE CORPS 2,3,4 • HOSE TENDERS 3,5,7,8 • WATER TOWER 4 • FUEL UNIT • HI-EX FOAM UNITS 1,2 SEARCHLIGHT 1 • COFFEE UNIT								
			FOAM UNIT • DIESEL FUEL UNIT								

FIRE FIGHTING SERVICE

NON-UNIFORM FORCE

FIRE COMMISSIONERS OFFICE	CS	COM	SEC	ACC	ACC	SCS	SCY	CY	SS	PPC	SPPC	PHV	USS	PUMP STATIONS				HYDRANT DEPARTMENT		
	TECH	160	1540	1654	1650	1446	1426	1474	1452	1220	1222	2220	5285	7205	7334	7333	7230	7323	7338	7514
FIRE COMMISSIONERS		3	1	1	1	1	1	1	2	2	1	1								
CHIEF'S OFFICE	1					1	1													14
BUR. OF FIRE PREV.						1		2												3
BUR. OF ENGR. & WATER SUPPLY													1	2	7	9	1	1	14	3
	1	3	1	1	1	2	2	3	1	2	1	1	1	2	7	9	1	1	14	3

ADMINISTRATION

PERSONNEL

Effective July 1, 1971, the work week of the Uniformed Force of the Department was reduced from 49.7 hours to 48.7 hours.

In order to provide the required manpower to implement the reduction of hours of the fire fighting force from 49.7 to 48.7 hours per week, the following budget requests, budget replacements and company deactivations were instituted to obtain the required 5 lieutenants and 26 firemen to implement this reduction in hours.

	<u>H-2 Firemen</u>	<u>H-20 Lieutenants</u>
Budget - new	3	1
Budget - Replacement	3	0
Company Deactivation		
Salvage Cos. 2 & 4	20	4
	<hr/>	<hr/>
	26	5

Salvage Company No. 1 remained in service, manned with a complement of four men for first alarm response to the City's high valve district. Salvage Units 2, 3 and 4 were placed in reserve status fully equipped and housed in stations with sufficient manpower necessary to dispatch any of these units to an emergency requiring additional salvage equipment. In addition, a supplemental appropriation request was submitted to the Mayor and Board of Supervisors to provide funds to equip all Engine and Truck Companies with salvage equipment as specified in the N.F.P.A. Pamphlet No. Automotive Fire Apparatus, 1970 Edition. This request was approved and instituted during the 1971-1972 fiscal year.

ADMINISTRATION

PROMOTIONS - UNIFORMED FORCE

The following promotions were made in the various uniformed ranks of the Department during the fiscal year 1971-1972:

<u>Rank</u>	<u>Effective Date</u>
<u>Assistant Chief of Department (C.S. H.50)</u>	
1) Donald J. Beck	9-4-71
2) Robert E. Clancy	9-28-71
3) Stanley G. Lewin	10-13-71
4) Peter A. Boyle	3-18-72
<u>Battalion Chief (C.S. H.40)</u>	
1) Charles A. Shaw	7-24-71
2) Cecil W. Russell	8-7-71
3) Cyril A. Kashevaroff	8-4-71
4) Edmund P. Erlwin	8-4-71
5) John C. Smith	9-15-71
6) Wilson H. Shields	9-28-71
7) Henry B. Nolan	10-13-71
8) Joseph F. Scannell	3-18-72
9) George Ayoob	3-21-72
<u>Captain (C.S. H.30)</u>	
1) Charles D. Cresci	7-24-71
2) Alf J. Arneson	8-7-71
3) Richard L. Conti	8-29-71
4) Gerald M. Dower	9-4-71
5) Peter Ruiz	9-4-71
6) John J. Cadden	9-14-71
7) William J. Magee	9-15-71
8) Thomas A. Gilchrist	9-19-71
9) Lucien M. Langlois	9-28-71
10) Victor J. Garibaldi	10-1 71
11) Evald A. Lundgren	10-13-71
12) William Stjepanicich	2-9-72
13) Frank J. Dunphy, Jr.	3-18-72
14) Charles H. Lee	3-21-72
15) Artti E. Juslin	3-23-72
<u>Lieutenants (C.S. H.20)</u>	
1) James E. McDermott	7-1-71
2) Anthony P. Rodriguez	7-6-71
3) James E. Evans	7-24-71
4) Paul J. Gaspar	8-7-71
5) Frederick J. O'Donnell	8-18-71
6) Albert W. Wright	8-29-71
7) Robert L. Bruno	8-30-71
8) John R. Bacciocco	9-4-71

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ADMINISTRATION

Lieutenants (C.S. H-20)

9)	Walter J. Bergamini	9-4-71
10)	William J. Murray	9-19-71
11)	Sylvester J. Cotter	9-14-71
12)	Robert W. Matlack	9-15-71
13)	John Brooks	9-22-71
14)	Paul W. Paulson	9-28-71
15)	Robert J. Foppigno	10-1-71
16)	William Wickliffe	10-6-71
17)	Milivoy M. Mikovich	10-13-71
18)	James M. Heffernan	10-10-71
19)	Arthur W. Jones	12-10-71
20)	John T. Kern	2-9-72
21)	Basil J. Fetchin	2-10-72
22)	Alfred P. Kenny	2-21-72
23)	Everett Timmer	3-18-72
24)	Raymond M. Capella	3-21-72
25)	John E. Putnam	3-23-72
26)	Richard B. Miller	3-23-72
27)	John C. Zensuis	3-25-72
28)	William J. Tuchy	3-25-72
29)	William H. Downing	4-12-72
30)	Rene E. Rey	4-14-72
31)	Robert C. Wyrsh	4-17-72
32)	Adolf Munoz	4-19-72
33)	Walter D. Lehigh	4-28-72
34)	Gerald B. Mahoney	5-5-72
35)	James M. Caldwell	5-17-72
36)	Joseph H. Miller	6-1-72

Chief's Operator (C.S. H-40)

1)	Gabriel Gallegos	7-24-71
2)	Eugene L. Gard	8-30-71
3)	Hector Garcia	9-19-71
4)	Timothy J. Miles	9-28-71
5)	Walter R. Heath	10-6-71
6)	Dominio Spinetta	1-26-72
7)	Paul J. Murray	5-5-72

Captain - Fire Prevention (C.S. H-32)

1)	Thomas J. Doyle	10-28-71
----	-----------------	----------

Lieutenant - Fire Prevention (C.S. H-22)

1)	Jack R. Sotter	10-28-71
----	----------------	----------

Inspector - Fire Prevention (C.S. H-4)

1)	Robert L. Hinman	8-24-71
2)	Ray E. Johnson	10-28-71
3)	John E. Hopkins	6-13-72
4)	Robert J. Jones	6-13-72
5)	Arthur W. Bauer	6-13-72

ADMINISTRATION

Investigator - Arson (C.S. H-6)

1) Ray E. Johnson

2-23-72

Marine Engineer - Fireboat (C.S. H-110)

1) Edward A. Flynn

5-24-72

PROBATIONARY UNIFORMED APPOINTMENTS

H-2 Firemen

Appointed July 6, 1971

- 1) William C. Sutherland
- 2) Joseph B. Frank
- 3) Joseph Higgins
- 4) Paul E. Schneider
- 5) John G. Clifford
- 6) Michael M. Shubin
- 7) James M. Gravanis
- 8) Richard P. Egelhofer
- 9) John Henderson
- 10) John A. Sudang
- 11) George B. Volkoff
- 12) Bernard Gidal

Appointed Aug. 2, 1971

- 13) Richard A. Elb
- 14) James M. Tracey
- 15) John S. Cercos
- 16) James A. Pierce
- 17) Joseph P. O'Brien
- 18) Donald J. Alexander
- 19) Arthur A. Giovara
- 20) Frank Scales Jr.
- 21) Dennis J. Pardini
- 22) Robert A. Mathes
- 23) Phillip P. Josue
- 24) William Duzkin

Appointed Aug. 3, 1971

- 25) Roger R. Francesconi
- 26) Thaddeus A. Golas
- 27) Ronald E. Restivo
- 28) Gary Lavaysse

Appointed March 7, 1972

- 29) Ekepati Panama
- 30) Ozell Austin
- 31) Rod Bennett
- 32) Jerry Puckett
- 33) Ernest Taylor
- 34) Walter Batisti
- 35) Ernest Li
- 36) Francisco Sandoval
- 37) Joseph Morrison
- 38) Clarence Ruffin
- 39) Robert Baireuther
- 40) John Hester
- 41) Leonard Roberts
- 42) William Dickerson, Jr.
- 43) Mustafa Hamid
- 44) Sidney Taylor
- 45) David Sun

Appointed March 20, 1972

- 46) Joseph P. Everett
- 47) Leroy Character
- 48) Payton Hunter, Jr.

Appointed May 31, 1972

- 49) Freddie Lee Williams

In addition to the above probationary appointments, the following were reinstated into the Department:

Kenneth A. Ahrens
Thomas Glafkides
William T. Hutchinson
James V. Costello
Harry J. Rice

Sept. 22, 1971
Sept. 28, 1971
Oct. 2, 1971
Jan. 3, 1972
May 31, 1972

ADMINISTRATION

TOTAL APPOINTMENTS - UNIFORMED FORCE

Permanent

Assistant Chief	4	Captain - Fire Prevention	1
Battalion Chief	9	Lieutenant - Fire Prev.	1
Captain	15	Inspector	5
Lieutenant	36	Investigator	1
Chief's Operator	7	Marine Engineer	1
		Firemen	49

CIVILIAN FORCE APPOINTMENTS

Anne Bennett	Principal Clerk Stenographer	7-1-71
John N. Sangiacomo	Utility Plumber	7-12-71
Julie S. Rowlette	Clerk Stenographer	7-28-71
Zack Mansfield	Clerk Typist	10-8-71
James J. Shea	Water System Sub-Foreman	2-23-72
James M. Woodcock	Utility Plumber	4-5-72
Carmen E. Bedell	Clerk Stenographer	6-21-72

FIRE COMMISSION APPOINTMENTS

Upon approval of His Honor the Mayor, a change was made among the members of the Fire Commission. Mr. Frank N. Alioto, President of the Commission had accepted a post as "BARTD" Commissioner. In his place as President, the Mayor appointed Mr. Rudy Tham. Mr. Frank Hunt was appointed to fill the existing vacancy on the Commission.

FIRE COMMISSION

Rudy Tham	-----	President
Morris Bernstein	-----	Vice President
Frank Hunt	-----	Commissioner

UNIFORMED FORCE TERMINATIONS

<u>Rank</u>	<u>Date</u>	<u>Name</u>	<u>Cause</u>
Assistant Chief	7-15-71	Albert E. Hayes	Disability
	8-7-71	Thomas W. Roche	Disability
	9-17-71	Dante J. Milani	Service
	3-18-72	Lawrence J. Dillon	Disability
Battalion Chief	7-9-71	Charles E. Schafer	Disability
	7-12-71	John M. Simpson	Disability
	7-15-71	Eugene J. Murphy	Service
	7-26-71	William P. Gregg	Disability
	2-7-72	John P. Bruzzone	Service

ADMINISTRATIONUNIFORMED FORCE TERMINATIONS (Cont'd)

<u>Rank</u>	<u>Date</u>	<u>Name</u>	<u>Cause</u>
<u>Captain</u>	7-9-71	George Tomasello	Disability
	7-18-71	James J. McElearny	Death
	7-26-71	Lawrence Vaughn	Disability
	7-28-71	Frank B. Flaherty	Disability
	12-18-71	Harvey Follett	Death
	2-26-72	Howard A. Olsen	Disability
	3-7-72	Phillip J. Smith	Service
	4-1-72	Marvin C. Holman	Service
<u>Lieutenant</u>	7-9-71	John J. Regan	Disability
	7-14-71	Daniel F. Eden	Service
	7-17-71	William A. Murphy	Service
	8-17-71	Herman Ebenritter	Service
	9-12-71	Edward T. Dorr	Service
	10-27-71	Charles A. McTernan	Service
	12-19-71	Fred Wells	Disability
	12-29-71	Raymond Lilves	Service
	2-6-72	John O'Shea	Service
	2-8-72	Emil E. Erickson	Service
	2-25-72	Timothy Holland	Service
	2-26-72	August H. Fick	Service
	2-27-72	Walter McNamara	Service
	3-1-72	Theodore Gloistein	Service
	4-14-72	Albert R. Johnson	Service
	4-14-72	Alvin K. Carlson	Disability
	5-5-72	Donald McMillan	Death
	5-5-72	William E. Carter	Service
	5-25-72	Robert Bourke	Death
	6-1-72	Walter J. Knutsen	Service
<u>Arson Investigator</u>	2-14-72	Emil Champion	Service
<u>Inspector</u>	7-28-71	Harry T. Soden	Service
	4-26-72	Raymond E. Batz	Service
	5-1-72	William J. Mahoney	Service
<u>Chief's Operator</u>	8-29-71	Joseph Brady	Disability
<u>Marine Engineer</u>	2-15-72	William D. Soule Jr.	Disability

ADMINISTRATIONUNIFORMED FORCE TERMINATIONS (Cont'd)

<u>Rank</u>	<u>Date</u>	<u>Name</u>	<u>Cause</u>
Firemen	7-3-71	Stephen P. Feeney	Disability
	7-5-71	Angelo Banchero	Service
	7-7-71	Lester A. Gregg	Service
	7-8-71	Orrin C. Butler	Disability
	7-9-71	Nick Balich	Disability
	7-10-71	Bernard C. Ross	Disability
	7-10-71	Jennings M. Renfrow	Service
	7-12-71	Vernon J. Humphrey	Resigned
	7-14-71	William Dobleman	Disability
	7-14-71	James E. Holmes	Service
	7-14-71	Harry J. Wrin Sr.	Service
	7-15-71	Bernard E. Schroff	Disability
	7-16-71	Robert P. Petersen	Disability
	7-16-71	William J. Harvey	Service
	7-17-71	Thos. F. DeNatale	Disability
	7-25-71	Thomas M. Maloney	Service
	7-25-71	Lloyd E. Lightel	Service
	7-26-71	George W. Nicol	Disability
	8-14-71	Rolph Eldrup	Service
	8-18-71	Herbert E. Vogler	Disability
	8-20-71	Allen Tedrow	Resigned
	8-22-71	John Deely	Death
	9-12-71	Walter R. Lippert	Service
	9-17-71	Horace T. Miles	Disability
	9-17-71	Jerome P. Lucey	Resigned
	9-22-71	Jerry N. Meyer	Resigned
	9-22-71	Thomas A. Burns	Service
	10-18-71	William A. Bidleman	Service
	10-22-71	Chester B. Patrone	Service
	10-27-71	Leonard J. Walsh	Disability
	11-13-71	Jeffrey Farber	Disability
	1-4-72	Michael Shubin	Resigned
	1-31-72	Elmer N. Hoppe	Death
	2-5-72	Stephen Garibaldi	Disability
	2-5-72	Frank J. Hunter	Service
	2-5-72	Thomas F. May	Service
	2-5-72	Frank A. Rey	Service
	2-11-72	Frank Devlin	Disability
	2-18-72	John Flaherty	Service
	2-19-72	John J. Ryan	Service
	2-22-72	Joseph A. Solin	Disability
	3-2-72	Edward J. McIntyre	Service
	3-8-72	John H. Duckley	Service
	3-9-72	Kenneth Foehr	Disability
	3-18-72	James F. Groshong	Death

ADMINISTRATION

UNIFORMED FORCE TERMINATIONS - Cont'd

<u>Rank</u>	<u>Date</u>	<u>Name</u>	<u>Cause</u>
Firemen	3-20-72	Robert C. Cotton	Service
	3-21-72	William W. Murphy	Resigned
	4-3-72	James T. Farley	Service
	4-15-72	Jack E. Cotter	Service
	5-3-72	Robert L. Hundley	Disability
	5-9-72	Carl P. Kruger	Disability

TOTAL UNIFORMED FORCE TERMINATIONS 1971-1972

Retirements (Service)	47
Retirements (Disability)	34
Resigned	6
Death	7
Total	<u>94</u>

In addition to the above, there are two non-uniform force terminations during the 1971-192 fiscal year.

<u>Utility Plumber</u>	2-1-72	Theodore Hall	Service
<u>Stenographer</u>	6-7-72	Henry Crabtree	Service

DISCIPLINARY ACTION

Nov. 16, 1971

Fireman Robert J. Burrows, Suspended for one (1) watch for violation of Section 3948 of the Rules and Regulations - Personal Appearance.

Nov. 16, 1971

Battalion Chief Cecil W. Russell, suspended for one (1) watch for violation of Section 1004 of the Rules and Regulations - Duties, Battalion Chief.

Nov. 16, 1971

Captain Richard L. Conti, suspended for one (1) watch for violation of Section 1102 and 1106 of the Rules and Regulations - Duties, Captain.

ADMINISTRATION

DISCIPLINARY ACTION (Cont'd)

Nov. 16, 1971

Lieutenant Robert R. Hammermeister, suspended for one (1) watch for violation of Section 1201 and 2102 of the Rules and Regulations - Duties, Lieutenant - Details.

Nov. 19, 1971

Lieutenant Robert E. Bourke, suspended for five (5) days for violation of Section 1102, 1106 and 2102 of the Rules and Regulations - Duties, Captain - Details.

Nov. 19, 1971

Fireman Michael V. Fitzgerald, suspended for two (2) days for violation of Section 3948 and Section 3905 of the Rules and Regulations - Personal Appearance and Unfamiliarity with Rules.

Nov. 21, 1971

Fireman Michael W. Salmon, suspended for four (4) days for violation of Section 3948 of the Rules and Regulations - Personal Appearance.

Dec. 8, 1971

Fireman Michael W. Salmon, suspended for twelve (12) days for violation of Section 3833 and 3923 of the Rules and Regulations - Disobedience - Insubordination.

Jan. 17, 1972

Fireman Stanley Sadler, suspended for four (4) days for violation of Section 3948 of the Rules and Regulations - Personal Appearance.

Feb. 5, 1972

Fireman David Gallon, suspended for fourteen (14) days for violation of Section 3923 and Section 3947 of the Rules and Regulations - Insubordination - Residence, Telephone and other changes.

Feb. 22, 1972

Fireman Larry M. Henry, suspended for two (2) days for violation of Section 3925 of the Rules and Regulations - Tardiness (Failure to report for duty).

April 25, 1972

Fireman Clarence Ruffin, suspended for two (2) days for violation of Section 3805 (a) and Section 3947 of the Rules and Regulations - Sick Leave - Residence, Telephone and other changes.

ADMINISTRATION

MERITORIOUS COMMENDATIONS

On December 14, 1971, the Fire Commission accepted the recommendations of the Fire Department Merit Advisory Board concerning Meritorious Awards to the following Department members:

Class "A" Award

Fireman John Hilderman

Class "B" Award

Fireman Michael Kiser	Fireman George Seaman
Fireman Gilbert Schoenstein	Fireman William Deas
Fireman Peter Sikora	Fireman Bernard Gidal
Fireman Robert Cutone	

Class "C" Award

Captain Patrick Conway	Fireman John Sweeney
Captain John Imwinklereid	Fireman Patrick Wallace
Captain Frank Rende	Fireman Harry Foote
Lieutenant David Hinman	Fireman Robert McGuire
Lieutenant John Pender	Fireman Timothy Nolan
Lieutenant Edward Begley	Fireman Mark Benson
Inspector Chester Born	Fireman Guido Devincenzi
Operator William Moore	Fireman Lorin Collins
Fireman Albert Thuesen	Fireman John Flaherty
Fireman James Scheihing	Fireman Robert Vergano
Fireman Michael Lewis	Fireman Horace Graupner
Fireman Randell Atkins	Fireman James Leonard
Fireman John Harris	
Fireman Peter Sikora	

Class "D" Award

Lieutenant Raymond Landi	Fireman Terry Miller
Lieutenant Charles Ryan	Fireman Warren Mahan
Fireman John Murphy	

ADMINISTRATION

Letters of Commendation

Captain Thomas Feeney
Captain George Morris
Fireman John Flaherty
Fireman John Hickey
Fireman William Reynolds

Fireman W. Norton
Fireman John Pell
Fireman John Brajkovich
Fireman Richard Ellien
Fireman Harry Robinson

Unit Citations

Engine Co. No. 18
Truck Co. No. 13
Engine Co. No. 32

Posthumous Awards

Captain James McElearney
Lieutenant Raymond Nyhan
Fireman Robert Hutchinson
Fireman William Johnstone

Meritorious Award Justification:

- Class "A" - A voluntary action in relation to the saving of human life under the most adverse conditions and at extreme personal risk.
- Class "B" - A voluntary action in relation to the saving of human life under dangerous conditions and at great personal risk.
- Class "C" - An action of exceptional character and associated with unusual ability, personal initiative and courage.
- Class "D" -
1. Assistant or Battalion Chief's commendation for recognition of Company, group or individual performance beyond that normally expected at an emergency situation.
 2. Individual or individuals who have been a credit to the Department in their activities on behalf of community affairs.
 3. A lesser award than stipulated above may be awarded to a Company, group or individual, and this award shall be in the form of a letter of commendation.

ADMINISTRATION

FISCAL

Budget - Personnel Services:

Under provisions of Section 36.2, City Charter, the salaries of the uniformed force of the Department are authorized by the Board of Supervisors. The salary range is based upon survey and certification by the Civil Service Commission of the highest salary paid firemen and police officers in California cities of 100,000 or more population.

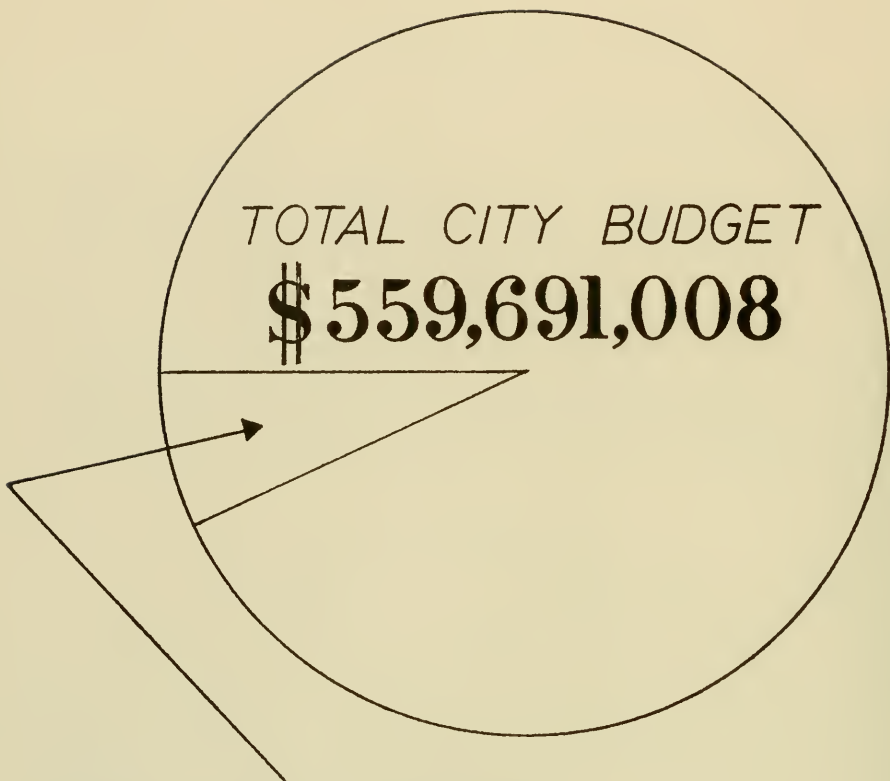
The required Charter Survey of July 1971 reported an increment of 7.9% for San Francisco firemen as compared to the 1970-71 salary range. An additional salary adjustment of 4.9% resulted from the August 1st survey. This survey was approved by the Board of Supervisors, Effective July 1, 1971. Salaries for employees, other than those of the uniformed force, are covered by salary standardization authorized by specific Charter sections.

Personnel

1971-72 - Budget Estimate	\$23,208,419
1971-72 - Budget Expended *	\$27,833,241

(*) Like Work - Like Pay (Differential Pay - Uniformed Force)

Effective July 1, 1967, it was required by City Ordinance to compensate members of the Fire Department who are required to be temporarily assigned to the next higher rank than that in which they are permanently assigned for more than one 24-hour shift. This occurs when necessary to assign a member to a higher rank due to there being no permanent relief member of the higher rank available for said assignment. This requirement incurred an expenditure of \$15,512.00 for the Fiscal Year 1967-68. In Fiscal Year 1968-69, this requirement required an expenditure of \$33,482.00, of which \$15,000.00 was authorized in budget estimate, \$15,000.00 by supplemental appropriation and \$3,482.00 by use of Department surplus funds. The authorized budget estimate in this category for 1969-70 was \$30,000.00. It was necessary to increase this estimate by supplemental appropriation in the amount of \$45,000.00 and by funds from the Department Permanent Salary surplus in the amount of \$12,473.00, a total expenditure of \$87,473.00. The authorized budget allowance for 1970-71 was \$45,000.00. The total expenditures amounted to \$38,291.00, resulting in a surplus of \$6,709.00. The reason for the lower amount was due to legislation passed in August, 1970, whereby permanent appointments are made to officers vacancies as soon as they occur. The 1971-72 budget allowance was \$52,000.00. This expenditure for the year showed \$38,698.00.



FIRE DEPARTMENT
BUDGET

\$40,307,898 *

FIRE DEPARTMENT
PERCENTAGE OF
TOTAL CITY BUDGET

7.2%

* GENERAL FUND DEPARTMENTS MUST NOW
SHOW RETIREMENT COSTS IN BUDGET.

ADMINISTRATION

Budget - Operating

This budget category represents the fiscal operating expense of the Fire Department:

1971-72 - Budget - Estimate	\$1,050,046
1971-72 - Budget - Expended	\$1,041,124

Item	Estimate 1971-72	Expended 1971-72
Contractual Services	\$ 710,312	\$708,973
Local Fares - Airport	1,200	861
Materials & Supplies	334,483	327,391
Fixed Charges	176	186
Meritorious Awards	3,875	3,713

Budget - Equipment

1971-72 Budget - Estimate	\$455,952
1971-72 - Budget - Expended	\$394,294

Budget Recapitulation and Comparison

Category	Expended	Estimate	Comparison
Personnel Services	\$ 27,833,241	\$ 28,208,419	- \$375,178
Contractual Services	708,973	710,312	- 1,339
Local Fares - Airport	861	1,200	- 339
Materials & Supplies	327,391	334,483	- 7,092
Equipment	394,294	455,952	- 61,658
Fixed Charges	186	176	+ 10
Meritorious Awards	3,713	3,875	- 162
Fringe Benefit	11,039,239	11,039,239	
Total	40,307,998	40,753,656	- 445,758

Department Receipts:

Recorded Department Revenues for the Fiscal Year 1971-1972 are reported as follows:

Permit Fees -----	\$ 6,774
Sale of Electricity -----	38,993
(Pumping Sta. #2 to Ft. Mason)	
Damage Recovery and Other Revenues -----	10,086
Photo Copy Service Charges -----	2,399
Port Commission	
(Port Fire Protection & Inspection) -----	131,705
Salvage Cover Rental -----	2,432

Total	\$ 192,889
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ADMINISTRATION

S.F.F.D.

Salary RangeUniformed Force

July 1, 1971-72

Chief of Department	\$ 3,128.00	per month
Deputy Chief of Department	2,632.00	
Assistant Chief of Department	2,135.00	
Secretary to Chief of Department	2,071.00	
Battalion Chief	1,349.00	
Captain	1,542.00	
Lieutenant	1,351.00	
Chief's Operator	1,265.00	
Captain, Bureau of Fire Prevention & Investigation	1,742.00	
Lieutenant, Bureau of Fire Prevention & Investigation	1,527.00	
Inspector, Bureau of Fire Prevention	1,392.00	
Investigator, Bureau of Fire Investigation	1,392.00	
Pilot & Marine Engineer, Fireboat	1,542.00	
Fireman - 1st year	1,111.00	
Fireman - 2nd year	1,126.00	
Fireman - 3rd year	1,146.00	
Fireman - 4th year	1,161.00	

Non-Uniformed Force

Fire Commissioner	\$ 100.00	per month
Secretary - Fire Commission	619.00	bi-weekly
Physician (part-time)	798.00	bi-weekly
Superintendent - Water Supply System	891.00	bi-weekly
Foreman - Water Supply System	10.49	per hour
Sub-foreman - Water Supply System	10.04	per hour
Chief Stationary Engineer	633.00	bi-weekly
Stationary Engineer	6.32	per hour
Junior Stationary Engineer	389.00	bi-weekly
Utility Plumber	8.88	per hour
Laborer	5.81	per hour
Accountant	409.00	bi-weekly
Principal Accountant	603.00	bi-weekly
Clerk Typist	264.00	bi-weekly
Senior Clerk Typist	337.00	bi-weekly
Senior Clerk Stenographer	345.00	bi-weekly
Senior Payroll and Personnel Clerk	329.00	bi-weekly
Payroll and Personnel Clerk	284.00	bi-weekly
Principal Clerk Stenographer	381.00	bi-weekly

ADMINISTRATION

BUREAU OF ASSIGNMENTS AND

COMMUNICATIONS

BUREAU OF COMMUNICATIONS

In July, 1971, the Bureau of Communications was established as a sub-bureau of the Bureau of Assignments and Communications. A captain was assigned to head the new Bureau under the functional supervision of the Battalion Chief, Bureau of Assignments and Communications. The Personnel Center and the Communications Center were physically separated in September, 1971, when the Personnel Center was moved from Central Fire Alarm Station to the Fire Department Headquarters building.

The functions of the Bureau of Communications are divided into three (3) operations:

Dispatch Center

Communications Center

Information Center

Dispatch Center

Two Lieutenants, qualified by experience and knowledge of Department policy are on duty per shift. Their primary functions are to receive and evaluate alarms, to dispatch necessary men and equipment, and to maintain status of all units of the Department under their control. The Dispatch Center is the heart of the time control operations. Alarms arrive at the center, decisions are made as to which units are to be sent to the emergency, and proper units are notified to respond. The basic purpose of the Center is to assure timely dispatches of manpower and equipment in response to demands for service. Street Boxes and Telephone Alarms are received at the Center. These alarms are processed there, and appropriate field units are notified to respond to the location from which the alarm was received.

Continued use of the "2-1 Signal" (Curtailed response to designated Boxes pulled from the street) has proven more successful than ever during this past fiscal year. Judicious use of this signal, plus cooperation of responding companies with quick and concise reports, has again reduced unnecessary movement of men and apparatus on the public thoroughfares. With the near-predictable annual increase in false alarm incidence, the main benefit of the "2-1 Signal" has been in having manpower and apparatus available for response to real emergencies that occur instead of their being unavailable because of a false alarm.

ADMINISTRATION

A comparative table of "2-1" Curtailed Response with the previous fiscal year is listed below:

	<u>FY 70-71</u>	<u>FY 71-72</u>
Total "2-1" boxes struck	6,565	6,957
Total "2-1" boxes found to be False	5,686	6,270
Percentage of False Alarms	86.6%	90.1%
Units dispatched to "2-1" False Alarms	8,588	9,654
Units withheld from "2-1" False Alarms	25,609	28,355
"2-1" Boxes with merit and no additional assistance needed	879	687
Units dispatched to "2-1" boxes with merit	1,327	1,087

A Civil Disturbance Operational Exercise was conducted on Nov. 6, 1971. This exercise was a Department-wide drill based on the Department's Civil Disturbance Operational Plan and had the following objectives:

- a) to test the communications capability of the Department to operate in the Task Force concept;
- b) to give units experience in convoy response and Task Force operations;
- c) to give Chief Officers experience in serving as Task Force Group and Task Force Center Commanders.

Two (2) Task Forces were established in the Central Shops area, Quint and Jerrold Streets, with an Assistant Chief designated as Task Force Commander. All alarms received during the exercise in the predetermined exercise area were given to the Task Force Commander by telephone or radio. All dispatching was done independently by the Task Force Commander. Ten (10) alarms were handled by Task Force units during the exercise. A two-alarm fire occurred in the Ocean View area during the exercise, further testing the communications capability of the Department. Many valuable lessons were learned during the exercise -- just one more example of the Department's effort to give the most efficient service possible.

1. The first part of the document is a list of the names of the persons who were present at the meeting.

- 1. Mr. John Doe
- 2. Mr. Jane Smith
- 3. Mr. Robert Brown
- 4. Mr. Mary White
- 5. Mr. David Green
- 6. Mr. Susan Black
- 7. Mr. Thomas Grey
- 8. Mr. Patricia Blue
- 9. Mr. Christopher Red
- 10. Mr. Elizabeth Yellow

2. The second part of the document is a list of the topics that were discussed during the meeting.

- 1. The first topic was the current status of the project.
- 2. The second topic was the budget for the project.
- 3. The third topic was the timeline for the project.
- 4. The fourth topic was the roles and responsibilities of the team members.
- 5. The fifth topic was the risks associated with the project.

3. The third part of the document is a list of the actions that were agreed upon during the meeting.

- 1. The first action was to assign tasks to the team members.
- 2. The second action was to set a deadline for the project.
- 3. The third action was to schedule a follow-up meeting.
- 4. The fourth action was to create a project plan.
- 5. The fifth action was to identify the resources needed for the project.

ADMINISTRATION

Communications Center

Radio operators at this Center, under the direction of the Fire Department Dispatch Officers, assist in the movement of apparatus as required. Companies "in-service" on the air are notified when due to respond to alarms. Calls for assistance of related agencies (ambulance, police, public utilities, etc.) from the scene of the emergency are expedited at this Center, with confirmation of procurement reported to the requesting unit.

All Department apparatus movement, regardless of its nature, is logged at this station. Time, location, and nature of incident are tabulated, and this information becomes the official Department record of response.

Radio operators conduct daily tests with Department units as well as with the State Civil Defense Radio System and the Fire Department Secode System to the San Francisco International Airport. The Communications Center is also responsible for the maintenance and preservation of the five-track tape recorder and tapes, which record all emergency traffic in and out of the Center. Required logs of all radio transmissions -- Federal, State, and Department -- are maintained at this station.

Mobile Communications Unit #1, manned by radio personnel, responds from this Center. It serves as a field command post at greater alarm fires and other emergencies as required.

During FY 1971-1972, Communications Unit #1 responded to 107 alarms and was credited with 170 hrs. 25 min. of fire service.

Information Center

This Center maintains information essential to emergency operations in the Fire Fighting Divisions. Of particular and significant importance is the extensive amount of material catalogued and indexed for immediate reference, such as technical books, pamphlets, manuals, written locations of special keys, maps, records, and tools, and other information invaluable to field operations. Sources of identifying thousands of chemical compounds, their expected reactions under fire conditions, and recommended methods for their extinguishment are of inestimable assistance to field personnel.

The teletype located at the Communications Center is used by Communications Center personnel to publish such information as daily weather reports, street closures, water supply data, and other facts pertinent to the efficient operation of the fire fighting forces.

ADMINISTRATION

Fire Alarm Boxes

The Department of Electricity had the following total number of Fire Alarm Boxes in service during the past fiscal year:

Department of Electricity	1987
Pacific Fire Extinguisher Co. (Reichel)	52
Pacific Auxiliary Fire Alarm Co. (Auto Call)	5

2044

Additional Assignment Cards are maintained for the following auxiliary services:

American District Telegraph Co. Locations	408
Pacific Fire Extinguisher Co. (American Burglar Alarm Locations)	118
Burns Electronic Security Inc.	20

546

Total Fire Alarm Box Assignments 2590

BUREAU OF ASSIGNMENTS

The authority for constantly maintaining adequate personnel to insure the most efficient operation of Department apparatus and equipment is delegated to the officers assigned to this Bureau by the Chief of Department. To accomplish this objective requires a system of planning and procedures to which this Bureau religiously adheres.

A brief description of some of the more exacting operations performed here is as follows:

1. Compilation of Division strength reports.

Each morning, this Bureau receives the on-duty strength report from each Division, including that of the Airport, and then relocates personnel as required to assure adequate manpower coverage throughout the Department.

2. Estimation of manpower availability on a three (3) day forecast.

Each Division delivers to this office its estimation of personnel who will be available for duty three (3) days hence. Officers and members who will be absent due to sick leave, disability, military

ADMINISTRATION

or other leaves, or vacations, details etc. are enumerated and deducted. These reports must be audited by Bureau officers to insure exactness. Where estimations fall below the number specified in the memorandum of agreement between the Firefighters Local and the City and County of San Francisco for the minimum on-duty work force in the firefighting service, members who will be on their seventy-two (72) or ninety-six (96) hours off-duty periods must be contacted personally to ascertain if they would accept a watch during their off-duty periods. Individuals are contacted on a seniority basis, by tour, using a square system to insure impartiality. As each member accepts or refuses, his square is filled with the date and his decision. To expedite this audit, a manpower situation board has been developed by officers of this Bureau. This board discloses all members absent from duty and not yet replaced. Constant updating makes this a most valuable tool. So that all concerned may be apprised of the manpower situation, teletype messages are sent from this office designating who shall work these extra watches and to which companies they shall report for duty. To complete this operation, payrolls must be prepared and forwarded.

3. Where classification above H-2 Fireman is involved, City Ordinance requires that those absent from duty in excess of one (1) watch be replaced by members of equal rank or that those working "out of classification" be compensated at the higher rank's rate of pay. Personnel to so work are selected from Civil Service eligible lists, when such lists exist, or by seniority of service in the Department in the rank below that required to be replaced. Notification of these temporary assignments, by the Chief of Department, through the Bureau of Assignments, must be forwarded to the Fire Commission, Civil Service Commission and the Division of Accounting with the corresponding payrolls at the conclusion of each pay period.
4. Daily membership reports, indicating total personnel on duty in each Unit, Company, Bureau, Battalion and Division, and enumerating those absent due to injury, illness, leaves, etc., are prepared and forwarded from this office. This Bureau can locate at any time every individual on duty in the Department as to assignment and location.
5. Vacations: Allocation of vacation periods remains a monumental task. Adaptation of calendar days to our tour schedule system requires the following:
 - a) Compilation of seniority lists, by rank, to insure impartiality and the seniority rights of members.
 - b) Formulation of time tables for the coming year.
 - c) Preparation of the vacation form with instructions for completing same.
 - d) Distribution of vacation forms to membership.
 - e) Collection of forms and processing of same.
 - f) Completed vacation schedule for ensuing year are distributed to each Division, Battalion, Company, Unit and Bureau.

ADMINISTRATION

Exchanges of vacation periods, vacation accumulations, deferments, and use of intermittent day vacation privileges further complicate and increase this work load. The releasing of men from duty for vacation and the replacing of same with relief personnel as available are also functions of this Bureau.

A personnel card for each member is maintained at this Bureau. On these cards are indicated the member's date of appointment, assignments, promotions, vacations, leaves, etc. which disclose a personal chronicle of his department career. This card also contains the member's personal information such as age, marital status, blood type, religion, social security number, military affiliation, etc.

Dissemination of information pertaining to details, hazardous cargo, fumigations, water supplies, relief apparatus, street closures, parades, and myriad other notices necessary for the efficient operation of the department emanate from this location.

During the last fiscal year, the following messages were issued to facilitate department operations:

<u>Teletype Messages</u>											
1971						1972					
Months						Months					
July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
437	414	407	530	515	503	546	458	530	502	516	514

The very effective use of this type communication is demonstrated by the yearly increase of messages dispatched since installation of the teletype. In 1962, the first year of operations, the average monthly TT MSG was 204. This past fiscal year, the figure was 496.

National and international visitors frequently visit our Assignment and Communications Bureau. From those who are Fire Officials as well as Fire Buffs an exchange of information is quite often advantageous to all concerned.

A continual process of educating field officers in the dispatching of apparatus and movement of personnel is conducted at both Bureaus.

The Chief in charge of the Bureau attends all Department Staff meetings called by the Chief of Department, as well as frequent conferences with the Deputy Chief. He also responds to communications Headquarters while off duty, on all fourth or greater alarms of fire, upon notification, as well as at other times when conditions warrant his presence.

ADMINISTRATION

SUMMARY

These Bureaus are required to expedite all Department matters channeled to them by proper authority. Dissemination of information, with strict adherence to Department policy, places these Bureaus in the midst of administrative authority and general field operations. The Bureaus of Assignments and Communications are motivated not only by intra-bureau goals, but also by the total Department objectives necessary for high standards of performance.

BUREAU OF EQUIPMENT

The Bureau of Equipment is staffed with one officer and ten firemen, and is responsible for maintenance, lubrication, inspection as well as the procedure for care and operation of all apparatus and equipment in the Department.

During the fiscal year 1971-1972, the Bureau received some 15,000 requests for supplies, equipment repairs, oxygen, and extinguisher exchanges and other services. Approximately 50% of these required additional calls to other city departments for verification and processing.

Aside from maintaining records on all apparatus and hose, the Bureau compiles and reports on all apparatus in and out of the Central Shops, annual pump tests, hose complement and apparatus status.

The Bureau participates in high pressure tests; assists the Division of Training and Division of Planning and Research on special projects; evaluates suggestions submitted by the Advisory Board; attends Oral Boards and pump operator evaluation tests for neighboring communities.

During week-ends and hours when the Central Shops are closed, members of the Bureau handle emergency repairs to apparatus and equipment.

The Bureau of Equipment responds to all greater alarms and accidents involving our apparatus and also provides emergency towing service for other city departments when requested.

ADMINISTRATION

Apparatus Status

As of June 30, 1972, the following equipment was in service and in reserve in the San Francisco Fire Department:

	<u>In service</u>	<u>Reserve</u>
1,000 GPM Combination Engine and Hose Wagon --	0	14
1,000 GPM Combination Pumpers, Triple -----	22	6
1,000 GPM Triple Combination Pumpers (Diesel)	2	0
1,000 GPM Triple Combination Pumpers (C.D.) --	0	1
1,250 GPM Triple Combination Pumpers -----	12	0
1,250 GPM Triple Combination Pumpers (Diesel)	5	0
1,500 GPM Triple Combination Pumpers (Diesel)	3	0
Aerial Ladders - 100 foot -----	15	0
Aerial ladders - 92 foot -----	1	0
Aerial ladders - 85 foot -----	2	0
Air Compressor -----	1	0
Automobiles - Chiefs' -----	15	6
Automobiles - Staff -----	32	0
Mini Buses -----	3	0
City Service Trailer -----	2	6
Coffee Unit -----	0	1
Fire Boat -----	1	0
Foam Unit -----	0	1
Gasoline Fuel Unit -----	0	1
Hi-Expansion Foam Trailers -----	0	2
Hose Tenders -----	3	3
Hydrant Trucks -----	8	0
Hydrant Trucks Valve Units -----	14	0
Pipe Dolly (C.D.) -----	0	1
Pipe Dolly - Trailer - (C.D.) -----	0	1
Portable Compressor - 2 Wheel Trailer -----	1	0
Rescue Trucks -----	2	1
Salvage Trucks -----	1	3
Sand Truck -----	0	1
Searchlight Engines -----	1	0
Service Squads -----	2	0
Tow Truck -----	1	0
Tractors, Aerial -----	15	2
Tractors, Aerial - Diesel -----	3	0
Tractors - City Service -----	2	10
Trucks - Auxiliary Pumpers - 500 GPM -----	0	17
Trucks Delivery -----	5	0
Trailers - Auxiliary - 500 GPM -----	0	3
Valve Unit -----	1	0
Water Tower - Large -----	1	0
Water Tower - Small -----	0	2
Water Rescue Unit -----	0	1

ADMINISTRATION

Services Performed by the Bureau of Equipment 1971-72

Apparatus repaired in shops -----	410
Apparatus repaired in quarters-----	2506
Emergency Repairs in quarters -----	666
Greased in shops -----	205
Apparatus tested -----	33
Tow jobs -----	57
CO2 refills -----	420
Ansul refills -----	184
Flashlight exchanges -----	315
Glove exchanges -----	1272
Goggle exchanges -----	136
Assisted Planning & Research -----	423
Greater Alarms responded to -----	135
Cisterns serviced -----	4
Scott cylinders delivered -----	157
Road tests -----	35
High Pressure tests -----	34
Oxygen cylinders delivered -----	82
Large air cylinders delivered -----	56
Portable radios delivered -----	11
Type "D" cylinders delivered -----	69
Pump tests -----	33
Misc. deliveries and repairs -----	1956

Hose Complement

Contained in the following chart is the hose complement of the Department, excluding short utility lengths, soft suctions, hydrant jumper lengths, circulators, multi-versal and house lengths.

S.F.F.D. Hose Complement - June 30, 1972

<u>Age</u>	<u>2-3/4"</u>	<u>1½"</u>	<u>1"</u>
10 yrs. or less	70%	73%	70%
10 - 15 yrs.	26%	27%	30%
Over 15 yrs.	4%	0%	0%
Totals	<u>100%</u>	<u>100%</u>	<u>100%</u>
Total Footage	161,900 Ft.	59,800 Ft.	26,450 Ft.

Total footage in hose complement

248,150 Ft.

ADMINISTRATION

OFFICE OF EMERGENCY SERVICES

(Formerly Disaster Corps)

During the fiscal year of 1971-1972, the Disaster Corps was changed by ordinance to the Office of Emergency Services. Fire Department personnel assigned to this office consists of two Battalion Chiefs and one Lieutenant. One Battalion Chief, assisted by the Lieutenant, serves as Fire Coordinator. The Fire Coordinator, in the past, held the title of Chief, Plant Protection.

The second Battalion Chief is in charge of the Fire Reserve. His duties include training the Reserve and directing them when working at greater alarms.

Emergency Services Fire Coordinator

His primary duties are to develop within business firms, Hi-Rise buildings, industrial plants and other directed premises, programs for organizing and training management and other responsible occupants to cope with war caused and natural disasters.

He serves a dual purpose in on-the-spot training of shelter managers, radiological monitors and fire fighting forces available within designated buildings within the City of San Francisco.

An all important phase of these duties is the introduction of a new approach in personnel movement in Hi-Rise buildings and emergency communications and controls and the establishment of refuge areas.

Another facet, with the National Fallout Survey and Marking Program, is the inspection and approval of licensed fallout shelters before such shelters are stocked and marked and obtaining licenses for buildings not previously licensed.

The following is a breakdown of the principal services performed by the Fire Department Coordinator with the Emergency Services during fiscal year 1971-1972.

1. Shelter visits	535
2. Number of individuals contacted on shelter visits	337
3. Talks and demonstrations in safety and the use of first aid appliances	45
4. Number of people trained (under item #3)	1253
5. Examined and replaced Radeff monitoring kits in shelters	236
6. Inspected shelters for stockpiling	168
7. Relocation of shelter supplies	2
8. Number of people contacted re: Emergency plans for Hi-Rise buildings	340
9. Attended and participated in meetings of Emergency Planning Committee as representative of S.F.F.D.	5
10. Attended meeting on evacuation plans for Hi-Rise and program for removal of certain items in medical kits	

ADMINISTRATION

Fire Reserve

The Fire Reserve is a unit of the San Francisco Emergency Services organized to augment the San Francisco Fire Department in times of natural disaster or hostile military action. It is supervised by a Battalion Chief of the Fire Department.

The members of the Fire Reserve are dedicated citizens whose services are volunteered to the City and County of San Francisco without remuneration. The majority of the top officers of the Reserve have served since the Reserve's inception during World War II.

These men are specially selected and trained. Training exercises are held weekly throughout the year. The Reserve also receives on-the-job training by observing and assisting the San Francisco Fire Department in the extinguishment of multiple alarm fires.

In the event of hostile military action, or of a natural disaster of long duration, the Fire Reserve will be greatly expanded to assist in the safeguarding of the lives and property of all our citizens. The present membership will be the nucleus of any required expansion of this organization.

The mobile equipment of the Reserve consists of seventeen 500 G.P.M. Pumping Engines. Each pumper is equipped with the necessary tools and equipment. These engines are designed to pump from fire hydrants and to draft from lakes, ponds, cisterns, and San Francisco Bay.

The Reserve also has available 4,800 feet of six-inch aluminum pipe for use as portable water mains during any emergency. Two thousand - four hundred feet are on a semi-trailer stored at the Division of Training, and 2,400 feet are stored at Engine Company 30. These portable water mains are the property of the Fire and Rescue Division of the California Office of Emergency Services. Should the need arise, additional pipe may be secured from other storage depots throughout the Bay Area.

Also available through the State Office of Emergency Services is a 1,000 G.P.M. Class "A" Pumper, under the jurisdiction of the San Francisco Fire Department. This pumper is available for use by our Department, as well as being on call by the State for Mutual Aid purposes.

Membership of the Fire Reserve - June 30, 1972: 63

Activities:

Training Exercises	53
Total Attendance	1207
Man Hours - Training	2633
Pumpers Used - Training	97

Greater Alarms Responded to:

Total	27
Total Attendance	212
Man Hours of Work	555

1. The first part of the report is a general introduction to the subject of the study. It discusses the importance of the study and the objectives of the research.

2. The second part of the report is a detailed description of the methodology used in the study. It includes information about the sample, the data collection methods, and the statistical analysis.

3. The third part of the report is a discussion of the results of the study. It compares the findings with the previous research and discusses the implications of the study.

4. The fourth part of the report is a conclusion and a list of references. The conclusion summarizes the main findings of the study, and the references list the sources used in the research.

5. The fifth part of the report is a list of appendices. These include additional data, tables, and figures that are not included in the main text of the report.

6. The sixth part of the report is a list of abbreviations and a glossary. These provide definitions for the terms used in the report and help to clarify the meaning of the text.

7. The seventh part of the report is a list of acknowledgments. This section is used to thank the people who have helped with the study, including the supervisor, colleagues, and friends.

8. The eighth part of the report is a list of references. These are the sources of information used in the study, including books, articles, and websites.

9. The ninth part of the report is a list of appendices. These are additional materials that are related to the study, such as questionnaires, interview schedules, and data tables.

10. The tenth part of the report is a list of references. These are the sources of information used in the study, including books, articles, and websites.

11. The eleventh part of the report is a list of appendices. These are additional materials that are related to the study, such as questionnaires, interview schedules, and data tables.

12. The twelfth part of the report is a list of references. These are the sources of information used in the study, including books, articles, and websites.

13. The thirteenth part of the report is a list of appendices. These are additional materials that are related to the study, such as questionnaires, interview schedules, and data tables.

14. The fourteenth part of the report is a list of references. These are the sources of information used in the study, including books, articles, and websites.

15. The fifteenth part of the report is a list of appendices. These are additional materials that are related to the study, such as questionnaires, interview schedules, and data tables.

16. The sixteenth part of the report is a list of references. These are the sources of information used in the study, including books, articles, and websites.

17. The seventeenth part of the report is a list of appendices. These are additional materials that are related to the study, such as questionnaires, interview schedules, and data tables.

18. The eighteenth part of the report is a list of references. These are the sources of information used in the study, including books, articles, and websites.

19. The nineteenth part of the report is a list of appendices. These are additional materials that are related to the study, such as questionnaires, interview schedules, and data tables.

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ADMINISTRATION

Public Information Officer

Public information activities for the fiscal year 1971-72 involved but were not limited to the following:

1. Arranging and conducting tours of stations and other property of the San Francisco Fire Department.
2. Establishing and maintaining liaison between the Media and the Fire Department as directed by the Chief of Department.

Some of the major activities during the year were:

A. Bombero Program

In cooperation with the California Fire Chiefs Association, the San Francisco Fire Department hosted 110 Bomberos (firefighters) from Mexico for a five-day training period. The men were housed in various fire stations throughout the peninsula, and in San Francisco they were housed at Engine Company 43 at no expense to the men or the Department.

The Bomberos were given a demonstration and a display of equipment at the Marina Greens by the Underwater Scuba Group of this Department. A tour of the City facilities were given with lunch at Lake Merced. Following their tour, a special Mass was arranged for the visiting firemen on February 16th at St. Charles Church, 18th Street & South Van Ness Avenue, it being a holy day for these men. A dinner then followed next door in their honor with the City and the San Francisco Fire Department as host. In attendance were the Consul General of Mexico, representatives of the State Fire Marshall's Office, chiefs of the various fire departments of the Bay Area, the Commissioners of this Department, and Chief of Department Keith P. Calden, who was the official host for the evening. Again this was done with the volunteer help of many men of the Department as well as the help of civilian organizations which donated various items for the dinner. Needless to say, the Bomberos left San Francisco with the highest regard for the City and its Fire Department.

Other programs

1. Company members of Engine 19 (now Engine 30) received national praise for their adoption of a deaf dog. The S.P.C.A. and students of a hard-of-hearing school were present at the fire station to give the dog a name. The students also demonstrated to the firefighters how they could communicate with the dog. This was followed with a luncheon for the children.
2. Chief of Department Keith P. Calden, as Safety Chairman of the local Scouts, and the Public Information office were involved in a program known as REACH which dealt with the communication problems of children between the ages of 8 to 17 year of age.

ADMINISTRATION

3. The conducting of tours with members of the Grand Jury whose duty was to make a study and an evaluation report on this Department. All major facilities of the Department were visited, and members of the Grand Jury were the guests of Engine 21, 43 and Engine 3 for dinner.
4. The San Francisco Chronicle, with cooperation of the Department, assigned one of its reporters to write a six-part series on our men and Department with the release in mid-July.
5. A fire prevention program, in conjunction with the Bay Area Grocers Association and the Western Kraft Corporation was conducted in this program, fire safety information was printed on the shopping bags in every major grocery chain from San Diego to the Oregon border. Expenses incurred in this program were estimated at over one million dollars, all of which was paid by the two aforementioned groups.
6. The San Francisco Fire Department Olympics.

This event will be a first, and every detail is being taken care of by firefighters on a volunteer basis. Word on the Fire Department Olympics began with a fund-raising spaghetti dinner which was an excellent success both financially and in the goodwill that it created with all the persons in attendance. The Olympics will serve many purposes, such as insuring physical fitness for the men entering each event, creating goodwill with all the other departments throughout the State that will be entered, and providing the experience for the firefighters who will coordinate the various sporting events.

7. The President's Commission on Fire Prevention and Control held its San Francisco meeting during June, a meeting which involved the coordination of the press, radio and television.
8. Setting up demonstrations through the Fire Prevention Division with various civilian groups throughout the City.

1. The purpose of this document is to provide information regarding the activities of the [redacted] in the [redacted] area. This information is being provided for your information and is not to be distributed outside of your office.

2. The [redacted] has been identified as a [redacted] and is currently active in the [redacted] area. The [redacted] is currently active in the [redacted] area and is currently active in the [redacted] area.

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ADMINISTRATION

San Francisco Fire Department Pioneer Memorial Museum

The San Francisco Fire Department Pioneer Memorial Museum was officially dedicated on October 5th, 1964. It is located adjacent to the quarters of Engine Company 26 and Truck Company 10, 655 Presidio Avenue, and is open to the public daily from 1300 to 1700 hours.

During the 1971-72 fiscal year, 4934 guests visited the museum. School children from San Francisco and the Bay Area have made regular visits to the museum in connection with their studies. Other groups that have visited the museum during the year include Boy Scouts, Girl Scouts, Jewish Community Center youths, recreation center youths, representatives from companies and corporations, senior citizens, members from the California Historical Society and people from other states and foreign countries.

Also, the museum has been visited by retired members and relatives. Information regarding the museum has been forwarded to various individuals in the United States as requested by them.

Various companies have borrowed various items for display purposes during the year, and all the items have been returned in good condition.

Citizens of San Francisco and the Bay Area and retired Department members and relatives have contributed items to the museum during the year.

Photo Unit No. 1

An interrelated and valuable segment of the Department's public relations program has been the constantly increasing operations of Photo Unit No. 1. Inspector Chester O. Born, official San Francisco Fire Department photographer, is known locally and throughout the nation's fire services for his comprehensive photographs and films of Fire Department operations. A brief summary of the Photo Unit's activity is presented on next page.

THE HISTORY OF THE UNITED STATES

OF THE
UNITED STATES OF AMERICA
FROM 1776 TO 1876

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1876

THE HISTORY OF THE UNITED STATES

OF THE UNITED STATES OF AMERICA

FROM 1776 TO 1876

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ADMINISTRATION

<u>Responses</u>	1970-71	<u>1971-72</u>
Total Alarms responded to-----	685	655
First Alarms -----	347	320
Second Alarms -----	73	84
Third Alarms -----	29	24
Fourth Alarms -----	5	8
Fifth Alarms -----	1	0
Still Alarms -----	226	219
Rescue Operations -----	125	135
Fire Investigation Bur.-----	58	63
Fire Prevention Bur.-----	25	19
Accidents involving Fire Dept. apparatus ---	22	21
Responses at San Francisco Intl. Airport----	3	1
Damage to apparatus in Civil Disobedience---	2	1
Bombings -----	2	0

S.F.F.D. photos appeared in:

S.F. Examiner	S.F. Progress
S.F. Chronicle	National trade papers (3)
S.F. Examiner - California Living	

S.F.F.D. photos were used on the following T.V. stations:

KGO	KPIX	KRON	KTVU
-----	------	------	------

Photos appeared in the following magazines and pamphlets:

Fire Engineering	International Fire Fighters
Fire Command	S.F.F.D. Annual Report
California State Firemen's Association	
Various fire suppression trade journals	

ADMINISTRATION

Color and black-and-white photos were displayed in:

Marine World Fire Prevention Program

Stonestown Mall

San Mateo County Fair (F.D. Participation)

Serramonte Mall

Fire slide shows and fire prevention lectures were given to the following:

Monterey Bay Fire Chief's Association (at Monterey)

Mount Davidson Lodge (Masonic Order)

San Francisco Shrine Club

Laurondale Women's Professional Club (at Oakland)

Richmond District Optimist Club

Occidental Lodge (Masonic Order)

Business League Club of San Francisco

Scout Explorer Post #1

Northern California Firemen's Association (at San Rafael)

Masonic Lodge - San Mateo (at San Mateo)

Novato Lions Club (at Novato)

Bay Area Odd Fellows Club

Division of Training S.F.F.D.

Photographs taken for:

Chief of Department and Division of Administration

Fire Commission

S.F.F.D. ID Card program

Division of Training

Bur. Fire Prevention

ADMINISTRATION

Photographs taken for: (Cont'd)

Mayor's Office

Bombero Visits

S.F.F.D. F.L.A.M.E. Program

S.F.F.D. Public Information Officer

S.F.F.D. Community Relations

Local 798 Firefighters Union

Coroner's Office

Bur. Fire Investigation

S.F.F.D. Credit Union

Lions Club

Regular Vet. Association

Military Order Purple Heart

S.F.F.D. Athletic Program

Lions Club Kiwanis and Optimist (Richmond District)

S.F. Police Department (Homicide, General Works, etc.)

California Highway Patrol

Bureau of Engineering and Water Supply

Planning and Research

Various requests nationwide for S.F.F.D. photos

Received S.F.F.D. First Aid Course

Rescue of man at 2/2 Box 1545 1246 hours May 16, 1972

Assisted 11 citizens in various trouble (auto accidents, personal injuries,
etc.

ADMINISTRATION

COMMUNITY RELATIONS BUREAU

The Community Relations Bureau, with the cooperation of the Fire Department administration, governmental agencies, firefighting personnel, and the Firefighters Union Local 798, attempted to establish a more sensitive contact with the community in general. False alarms, Fire Department practices and procedures, employment opportunities, and communication and dialogue between the community and the Department -- these were the subjects of concern. In an effort to address itself to the concerns of the community and the Department, the Community Relations Bureau engaged in the following activities, the primary purpose being that of opening up additional avenues of communications in order to develop understanding and awareness, and most importantly, trust, faith, and goodwill between the community and the Fire Department.

1. Fire Safety Technicians Program

A cooperative effort with the Mayor's Office, governmental agencies, and concerned individuals. It produced a community-oriented program designed to strengthen community relations between the Fire Department and the community. Initially, twenty-three enrollees engaged in activities designed to prepare them for entry into the Department via a promotional examination. Early in the program two enrollees resigned. On March 7, 1972, seventeen FST's were sworn in as H-2 Firemen by Chief Keith P. Calden. On March 20, 1972, three of the remaining four were sworn in. On May 30, 1972 the program came to a conclusion with the swearing-in of the last of the twenty-one program participants.

2. Recruitment (H-2 Fireman Examination)

On September 18, 1971 the Civil Service Commission Examining Division held an H-2 Fireman examination. Participating in this examination were 1741 applicants. To produce the desired results personal contacts were made with community organizations, the Human Resources Development Centers, churches and schools. Radio and T.V. public service announcements were aired. All daily and weekly newspapers in San Francisco received news releases that were subsequently published. The best results were achieved from area tours where person-to-person communication produced 516 names and addresses of individuals who expressed an interest in becoming San Francisco Firemen.

3. School Visitation

Visits were made to schools in areas where the Fire Department was plagued with false alarms to explain the perils of such actions.

[illegible]

1970

[illegible]

ADMINISTRATION

These visits were augmented at times by fire apparatus manned by Department personnel for the purpose of demonstration and informal discussion. The intent of this program is to expose school children to their neighborhood Firemen and fire apparatus and to explain the Firefighters' functions so that it will not be necessary to pull a false alarm to see firemen and fire equipment in action.

4. Meetings

The director regularly attended community organization meetings. When requested, he attended meetings of the Civil Service Commission, Human Rights Commission and other governmental agencies.

1. The Department of Education
2. The Department of Health
3. The Department of Social Services
4. The Department of the Environment
5. The Department of Transport
6. The Department of the Treasury
7. The Department of the Home Office
8. The Department of the Foreign Office
9. The Department of the Privy Office
10. The Department of the Admiralty
11. The Department of the Navy
12. The Department of the Air Force
13. The Department of the Army
14. The Department of the Royal Air Force
15. The Department of the Royal Navy
16. The Department of the Royal Air Force
17. The Department of the Royal Navy
18. The Department of the Royal Air Force
19. The Department of the Royal Navy
20. The Department of the Royal Air Force

1. The Department of Education
2. The Department of Health
3. The Department of Social Services
4. The Department of the Environment
5. The Department of Transport
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7. The Department of the Home Office
8. The Department of the Foreign Office
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ADMINISTRATION

FIRE LEAGUE ATHLETIC & MUSICAL EVENTS (F.L.A.M.E.)

During fiscal year 1971-72, this organization was sponsored by the San Francisco Fire Department and its members as a means of keeping children between the ages of 8 to 16 involved in various sports, such as baseball, basketball, softball, soccer, and water safety.

During this, our third year of F.L.A.M.E. operations, 1370 boys and girls have participated in our programs, for a total of over 3000 youths since our program started July 1969. F.L.A.M.E. expresses its thanks to the members of the Fire Department who have supported the program, and particularly to some of the following members who have served as coaches and instructors: Roger Bross, Jack Voelker, Peter Sikora, Gary Torres, Mike O'Leary, Jim Scheihing and Tom Cordery. The F.L.A.M.E. program also extends its thanks to the Department Photographer, Chet Born, for his many endeavors on behalf of the program.

The various sports activities, sponsored by F.L.A.M.E. during fiscal year 1971-72 included the following:

The F.L.A.M.E. Softball League started competition on September 23, 1971 and ended November 27. There were three age groups:

Western Division - Ages 10 and under
Central Division - Ages 11 through 12
Eastern Division - 13 through 15

315 boys participated in the program; division winners were given trophies while second place received medals.

Soccer was F.L.A.M.E.'s next project, in affiliation with the California Youth Soccer Association. On December 2, 1971, a formational meeting was called at which the F.L.A.M.E. coordinator asked for representation on the League Board. Lt. Ted Cordery was appointed because of his wide background in soccer. There were 18 teams represented in the league: 6 teams under 12 years of age, 4 under 14 years, 4 under 16 years, 4 under 18 years.

In addition to League play, 14 of these teams took part in club competition. While many were eliminated in early rounds, one under-16 team competed for the State Championship. On April 1, 1972, a youth soccer team from Braunschweig, Germany played a soccer match with a select team representing the San Francisco Junior F.L.A.M.E. Soccer League. The score was 2 to 2. F.L.A.M.E. is looking forward to another fine soccer season next year.

Bronco-Pony Baseball was F.L.A.M.E.'s next project. There were 28 teams involved again this year, with over 440 boys playing in this League.

There are two divisions of the Bronco and Pony teams: Bronco - ages 11 to 12 years; Pony - ages 13 to 14 years.

THE JOURNAL OF THE
ROYAL ANTHROPOLOGICAL INSTITUTE
OF GREAT BRITAIN AND IRELAND
PUBLISHED BY THE
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1901

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LONDON
1901

ADMINISTRATION

The League was officially opened on April 22, 1972 with Chief of Department Calden throwing out the first ball to his battery mate, President of the Board of Supervisors Ron Pelosi.

Upon the League's completion, there will be four all-star teams which will participate in tournament play. These teams will be known as San Francisco F.L.A.M.E. Bronco and San Francisco F.L.A.M.E. Pony. Tournaments will be held at San Francisco, Richmond, Campbell, and Santa Clara. The ultimate World Series winners will play the Bronco Division in St. Joseph, Missouri and the Pony Division in Washington, Pennsylvania during the month of August. Tournament play started on July 26, 1972.

Basketball was F.L.A.M.E.'s next project. This was known as the F.L.A.M.E.-O.M.I. - Summer Basketball League. There were 289 boys (ages 8 to 11 years) from 16 schools in the Zone 6 District who signed to play; there were 26 teams involved. League play started June 26, and continued through August 11, 1972. Medals for first and second place were given as well as F.L.A.M.E. participation patches.

F.L.A.M.E. was contacted by The Guardsmen, who requested that we supply 20 youths, ages 15 through 17, for an all-expense-paid vacation at Camp Pendleton for 10 days. This included air transportation both ways. Notices were sent to coaches in the F.L.A.M.E. programs as well as to the Fire Department.

F.L.A.M.E. has agreed to help the Explorer Post sponsored by the San Francisco Fire Department, providing the Post with some financial support. This program deals with boys who are interested in Firemanship, boys who have gone beyond the Scout level.

A meritorious award officially designated as the "San Francisco Fire Department Valor Award" was established for recognition of citizen bravery. This award has to do with Fire Department operations in which a youth is saved from serious injury or fatality by an adult, or in which a youth is involved in a similar incident saving an adult or another youth. During fiscal year 1971-72, this award was presented to three youths and two adults. F.L.A.M.E. also established a "Special Recognition Award" for outstanding work on behalf of the Department. This particular award was issued to one person during 1971-72.

During the past fiscal year, the operation of F.L.A.M.E. was financed from funds contributed by over 1250 Firefighters, together with friends of F.L.A.M.E. and of the San Francisco Fire Department. The Program was successful; approximately \$14,646.50 received. A breakdown of the amount is as follows:

F.L.A.M.E. membership	\$12,800.00
Donations - Friends - Business	1,010.00
Interest - SFFD Credit Union	836.50
	<hr/>
	\$14,646.50

ADMINISTRATION
COMMITTEE REPORTS

Fire Department Advisory Board

Now in its sixteenth year, the Advisory Board has continued to be the vehicle used to convey valuable suggestions from the field to the Chief of Department. Minutes of each monthly meeting are distributed Department-wide.

Ideas and suggestions, born of thorough training and practical firefighting experience, instead of being lost, are thus documented and evaluated.

In addition, the Board has been selected to sit as a Public Recognition Award Committee at the call of the Chief of Department. Reports of assistance rendered to the Fire Department are reviewed, and recommendations made to the Chief relating to the person or persons to whom an award should be presented.

The Advisory Board was streamlined last year by reducing the total membership to 13 consisting of one Assistant Chief, two Battalion Chiefs, two Captains, two Lieutenants, and six Firemen. The Assistant Chief acts as the chairman, and the secretary is chosen from the ranks of Firemen.

Appointments to the Advisory Board are now made on a rotating basis. Other than the Assistant Chief, one-half the Board is appointed in January and one-half in July. This assures the continuity and effectiveness of future Advisory Boards.

During the past fiscal year, the Advisory Board has received 43 suggestions. Of these, 13 were accepted, 9 were rejected, 14 are still pending decision, 5 were tabled, one was referred to another Bureau, one is still being evaluated by the Board.

During the past fiscal year, many of the suggestions received reflect the ever increasing technology in the firefighting service. The problems encountered in high-rise buildings and the expanded use of sophisticated extinguishing agents such as high expansion foam and the halogenated agents, are notable examples.

In receiving these suggestions from the Advisory Board, suggestions which often mirror problems encountered in the field, the Department as a whole benefits by the flow of this information.

ADMINISTRATION
COMMITTEE REPORTS

Educational Committee

The Fire Science Technology program being conducted at San Francisco City College continues to grow with each semester. During the past fiscal year, it has been possible to offer more subjects and to embrace more pre-employment students, and to also accept into the program firefighters from outside San Francisco.

The program now offers an Associate in Science (A.S.) degree rather than the Associate in Arts (A.A.) degree, as the former is found to be more in keeping with the fire profession. In addition, all of those graduating in this major with a "C" or a 2.00 average or better receive the Certificate of Proficiency which further establishes their ability to perform well in Fire Science Technology.

Successful placement of graduates in the fire services has been gratifying, with many finding employment in surrounding Bay Area communities, either where pay incentives are given to those with the Fire Science degree or where the candidate may prefer to reside and work.

In the last few annual reports, the courses which are offered and the number of students in these courses have been emphasized. This report, too, will show the number of students and courses. But in addition it emphasizes that the Fire Science program at S. F. City College has an Advisory Board which meets each semester and as required, to advise and assist in matters relating to the program. The members of this Advisory Board are well-qualified and have a particular interest in the success of the program. The people listed below will serve on the Advisory Committee during the coming fiscal year.

Advisory Committee --- Fire Science Technology

Keith P. Calden
Chief of Department
San Francisco Fire Department
260 Golden Gate Avenue
San Francisco, California 94102

Edward W. Bent, Supervisor
Fire Training
Bureau of Industrial Education
State Department of Education
721 Capitol Mall
Sacramento, California 95814

Charles Krieger, Representing
Local 798, AFL-CIO
San Francisco Fire Department
260 Golden Gate Avenue
San Francisco, California 94102

Charles Carli, Assistant Chief
Division of Training,
San Francisco Fire Department
2310 Folsom Street
San Francisco, California 94102

Tom Becker
Human Rights Commission
1254 Market Street
San Francisco, California 94102

ADMINISTRATION

Harvey Gruber, Supervisor (Assist)
Fire Training
Bureau of Industrial Education
State Department of Education
721 Capitol Mall
Sacramento, California 95814

Herman Spaeth
Executive Chief Engineer
Pacific Fire Rating Bureau
465 California Street
San Francisco, California 94104

Emmet Condon, Assistant Chief
Division of Fire Prevention &
Public Safety,
San Francisco Fire Department
260 Golden Gate Avenue
San Francisco, California 94102

Carl A. Weers, Manager
Insurance Services Organization
Merchants Exchange Building
465 California Street
San Francisco, California 94102

John G. DeSoto
Assistant Director, Recruitment
and Examinations
Civil Service Commission
Room 52-D City Hall
San Francisco, California 94102

Dr. Harry R. Buttner
Assistant Superintendent
College Division
City College of San Francisco, 94112

Dr. Louis F. Batmale, Superintendent
S. F. Community College District
San Francisco, California 94103

Dr. Jack H. Aldridge
Assistant Dean of Instruction
City College of San Francisco 94112

Alexander A. Potter
Instructor-Coordinator
City College of San Francisco 94112

Martin J. Kilgariff, Instructor
City College of San Francisco 94112

Thomas Farrell
Civil Service Commission
151 City Hall
San Francisco, California 94102

Reynolds Kelleher, Personnel Analyst
Civil Service Commission
151 City Hall
San Francisco, California 94102

The G-12 Practical Speech course had two classes each week during the past semester and in the future will continue in the same manner. It is recommended that junior officers and firefighters avail themselves of the opportunity to take this required course while they are still not involved in concentrating upon studying for the rank of Battalion Chief and Assistant Chief.

While it is expected that the lieutenant's and captain's examinations will be held toward the end of this calendar year, it is also suggested that the wealth of material provided the student makes course 75-8 "Company Organization and Procedures," a tremendously informative course. Officers and members will be accepted for this course in the order of their filing for classes. They should be advised that this course does not provide Civil Service with any examination material of any kind. However, the course will adhere to subject matter as recommended in promotional study guides as it relates to our department and personnel.

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Category	Number of cases	Percentage
1. Generalized tonic-clonic	10	10.0
2. Partial tonic-clonic	10	10.0
3. Absence	10	10.0
4. Myoclonic	10	10.0
5. Atonic	10	10.0
6. Spasms	10	10.0
7. Other	10	10.0
Total	100	100.0

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ADMINISTRATION

We must conclude by again thanking Superintendent Louis Batmale of the Community College District, Dr. Harry Buttner, who will be the President of the College by the time of this release, Dean Jack Aldridge, who guides us through the intricacies of the College operations, and all the other wonderful people of City College who help make our program the success it is. Mr. Martin Kilgariff is doing a most excellent job, and Mr. Eugene Roberts of the Chemistry Department has an enthusiasm which transfers itself to his students.

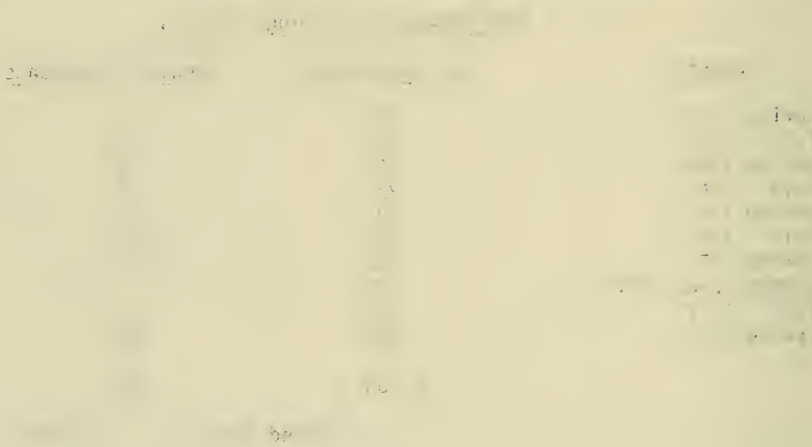
Fire Department personnel involved in the Fire Science technology program during the past year includes Captain Alexander Potter, coordinator of the program, with wonderful assistance from Lieutenant George Kelly, and Inspector James King in the arson course (#55). This past semester, Inspector King has been outstanding in G-12, "Practical Speech". Captain George Morris teamed with Mr. Kilgariff in #75, "Company Organization and Procedures", and presented a fantastically versatile and informative course.

Fire Science Technology Classes

<u>Semester</u>	<u>Day Attendance</u>	<u>Evening Attendance</u>
Spring 1968	220	63
Fall 1968	206	80
Spring 1969	189	30
Fall 1969	229	76
Spring 1970	182	96
Fall 1970	224	109
Spring 1971	240	114
Summer School 1971	25	
Fall 1971	288	99
Spring 1972	<u>257</u>	<u>201</u>
	2,050	794
	Grand Total	2,844

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ADMINISTRATION

MISCELLANEOUS

During the fiscal year 1971-72, seventy-six letters of commendation were received in the office of the Chief of Department relative to Department action at various emergencies. All commendations were recorded through the office of the Fire Commission by entry on Journals of Proceedings. Copies of these Proceedings are sent to each station.

Contributions to the amount of \$250.00 were received at the office of the Chief of Department for deposit to the Widows' and Orphans' Aid Association of the Fire Department. These contributions were duly recorded through the office of the Fire Commission and were given to the Secretary-Treasurer of the Association for deposit and recordation.

ADMINISTRATION

Safety Committee

The Safety Committee has been reorganized and now consists of the Chief of the Division of Training who serves as chairman, a secretary, and ten captains as staff members.

Staff members were selected so that in each firefighting division, with minor exceptions, there will always be a member on duty. This facilitates immediate response of a Safety Committee member to injuries and unsafe conditions when his presence is requested.

Procedures have been requested whereby Department officers can have the services of a Safety Committee member by requesting him through the Bureau of Communications. As was noted, committee members are available twenty-four hours a day, seven days a week.

The Safety Committee believes it can give better service to the Fire Department by having incidents investigated immediately after occurrence.

<u>DISABILITY</u>			
<u>JULY, 1971</u>	to	<u>JULY, 1972</u>	
July, 1971	49	January, 1972	70
August	73	February	58
September	56	March	76
October	57	April	88
November	71	May	74
December	50	June	65
TOTALS			787

Vehicular Accident Committee

The Vehicular Accident Committee was reactivated in March of 1972 after having been dormant for the past few years. The main purpose is to make a statistical study of vehicular accidents and their causes, and to make recommendations for their prevention. In addition, the committee will determine the estimated costs to the Fire Department of these accidents, and the amount of time Department vehicles are out of service due to accidents.

Since January, 1972, there have been 88 accidents, 46 of which were deemed preventable.

An analysis of the accidents during the first six months of 1972 again reveals that the cause of greatest concern from the safety standpoint are accidents which occur while proceeding through intersections, stop-and-go signals, and arterial controlled intersections when Department vehicles are responding to alarms.

Radio Committee

Due to economic reasons the budget appropriation for radio equipment was deleted from the 1971-72 budget.

The installation of mobile radios purchased from last year's appropriation was completed during this fiscal year.

Members of the Radio Committee attended meetings with the Command and Control Committee to evaluate the Department's present radio system to see how it will fit into the new dispatching system (SAFER).

Liaison was maintained with the Radio Division of the Department of Electricity in its installation of mobile radios on Fire Department apparatus and the maintenance and repair of equipment. The Department of Electricity was most cooperative with the Radio Committee.

ADMINISTRATION

Physical Fitness Committee

The Voluntary Physical Fitness and Weight Control Program was implemented on June 30, 1971.

In conjunction with this program, a year round supervised inter-department sports program involving softball, basketball, volleyball, touch football and tennis, supplements the Fitness Program.

At the present time, since July 1971, the Voluntary EKG Stress Testing Program, with Presbyterian Hospital, has tested forty or fifty officers and men of the Department. This existing program is available for all members of the firefighting service, in the age group of 40 to 50 and 50 to 60 years of age.

The First Annual State-Wide Firemens' Olympics, covering sixteen sports will be hosted by our Department for three days, August 31 through September 2, 1972. This annual event will be hosted by other departments in the state on a rotation basis.

After January 1, 1973 the requirements of the Physical Fitness Standards and Weight Control will be mandatory for all members of the Department.

PLANNING AND RESEARCH



ENGINE CO. 36 - TRUCK CO. 14

DIVISION OF PLANNING AND RESEARCH

The Division of Planning and Research is charged with responsibility for the real property of the Fire Department; it has direct control over repairs and maintenance of all stations and property and improvements thereto; it administers the Fire House reconstruction program in co-ordination with the City Architect; it arranges for acquisition of lands for building needs, and for disposal of surplus properties; it schedules and budgets for all departmental furniture and maintains inventory records therefor. The Division is the department co-ordinating agency for implementation of the November 1971 Bond Issue to provide a Command & Control System for fire alarm receipt and disposition (the "Silent System"), improvements, and extension of the High Pressure System, improvement of the water supply in the outer Sunset district, conversion of the two A.W.S.S. Pumping Stations from the costly and antiquated steam boilers to diesel power, and the acquisition of a second Fire Boat. Several strategic gate valves in the High Pressure System are to be motorized for remote operation to more rapidly and efficiently control water flow within the system.

The Division prepares the Department's Capital Improvements Program; it serves as the Fire Department representative on the Inter-Departmental Staff Committee on Traffic and Transportation; it represents the Department before the Board of Supervisors, and its Committees, on matters concerning street closings, street vacations, and such matters relative to operational capability throughout the city.

It exercises administrative control over the Auxiliary Water Supply System (High Pressure System) acting through the Bureau of Engineering and Water Supply. It supplies the expertise for hydrant and water supply requirements for new developments; it controls relocation and new installations of hydrants; it is the liaison between the Fire Department and Water Department in matters concerning water supply for fire fighting needs from the domestic system.

The Division prepares staff studies and handles special projects as directed by the Chief of Department.

Firehouse Construction Program

The following reconstruction, or replacement, facilities have been completed under authorization and funding by the 1964 Bond Issue for Fire Station Reconstruction:

Headquarters	260 Golden Gate Avenue	\$ 1,115,000
Engine Co. 7	80 Digby Street	310,000
Engine Co. 17	416 Jessie Street	409,543
Engine Co. 28	1814 Stockton Street	256,000
Engine Co. 43	720 Moscow Street	358,224
Engine Co. 46	441 - 12th Avenue	62,494

Due to a moratorium on the construction program, in early 1970, to conduct a survey of the city's fire defenses and company distribution by the firm of Gage-Babcock & Associates, the remaining projects were held in abeyance; their current status is as follows:

Engine Co. 36, 551 - 26th Avenue

Currently under construction. Completion anticipated around December of 1972. Property adjoining south line of former station acquired in order to accommodate the two companies quartered therein.

Engine Co. 37, 2501 - 25th Street

This station is to be relocated to the site of the SFFD pipe yard at 2245 Jerrold Avenue. To this effect, jurisdiction over this property was transferred from the Department of Public Works to the Fire Department by resolution of the Board of Supervisors on May 10, 1971. The construction contract was signed on August 4, 1972, and completion is expected about August 1973. Plans for this house include requartering Battalion Chiefs of District 10 to this station.

Engine Co. 33, 117 Broad Street

This station is to be relocated to Capitol Avenue, south of Sagamore Street; land for this purpose was purchased from the Division of Highways, State of California. Plans for this one-story station are nearing the final phase and should go out for construction bid in the late fall of 1972. Provision is being made for extensive hose storage racks in the rear portion of the property.

Engine Co. 3, 1067 Post Street

This station is to be razed and reconstructed on site. Plans for the new station are in the mid point of preparation, and it is anticipated, the construction work should commence about January, 1973.

Engine Co. 8, 1648 Pacific Avenue

This station also will be razed and reconstructed on site. Plans will be prepared and waiting for the re-activation of Engine 3, Truck 3, then be let out for bid; the immediate area cannot be left open by two adjacent stations being vacated at the same time.

Engine Co. 48, 798 Wisconsin Street

This station, listed in the 1964 Bond Issue as Engine Co. 16 because of a then planned amalgamation of the two companies into one station, will receive interior remodeling to a yet undetermined degree dependent, primarily, on monies remaining in the Bond account.

Engine Co. 1, 115 Drumm Street

The relocation of this station to make room for the planned development of the Embarcadero Center is in abeyance awaiting construction schedules by the developers of the Center. The reconstruction and relocation to Sansome & Washington Streets is not chargeable to any Fire Department account, cost to be borne entirely by the Embarcadero Center.

DIVISION OF PLANNING AND RESEARCH

MAINTENANCE AND REPAIR

DEPARTMENT BUILDINGS

CAPITAL IMPROVEMENTS

Necessary maintenance requests and repairs to Departmental properties are processed through the Division of Planning and Research. The greater majority of these are directed to the Bureau of Building Repair of the Department of Public Works who budget for the cost to maintain all City buildings.

During Fiscal Year 1971-72, 1223 requests for repairs were administered by this Division.

Additions and extensions of facilities, those that add something not previously existent, and those that change the physical appearance of these properties are termed "Capital Improvements". Such requests are formed into a departmental program of desired priority which is merged with like programs of all other City Departments by the Department of City Planning. Funding of this city-wide program differs from all budgetary procedure and is subject to sharp curtailment.

BUREAU OF ENGINEERING AND WATER SUPPLY

This Bureau, under the control and direction of a Senior Mechanical Engineer, is responsible for the maintenance, operation, repair and planning in connection with the Auxiliary Water Supply System (also known as the High Pressure System), a completely independent system of reservoirs, water mains and hydrants for fire suppression purposes only. Areas of responsibility for the Bureau of Engineering and Water Supply include:

1. The Auxiliary Water Supply System, which includes: the Twin Peaks Reservoir, the Ashbury Storage Tank and Valve House, 114 miles of mains and gate valves, and the 1383 high pressure hydrants. This system supplies fresh water into the AWSS mains normally supplied from the domestic water system. Also a part of the AWSS are the two pumping stations, located at 2nd and Townsend Streets, and at the foot of Van Ness Avenue, which are designed to draft from the limitless waters of San Francisco Bay and to pump into the High Pressure mains in the event that augmentation of supply is required. During the year, Ashbury Tank was painted, interior coating was repaired, and a ladder safety cage was installed. Eight high pressure hydrants were relocated.
2. Maintenance of the low pressure hydrants which are connected to the domestic water supply mains. During this fiscal year, 20 low pressure hydrants were installed, 11 were permanently removed, and 44 were relocated. There are now 7724 low pressure hydrants in service.

DIVISION OF PLANNING AND RESEARCH

BUREAU OF ENGINEERING AND WATER SUPPLY (Cont'd)

3. Inspection and maintenance of the 150 cisterns located throughout the City. These emergency supplies of water normally contain 75,000 gallons of fresh water; they are kept supplied by hose line from the nearest hydrant when replenishment is required. A new cistern was built at Van Ness Avenue and Oak Street to replace one in the way of the new Van Ness Avenue transit station.
4. Dry standpipes installed on buildings are tested by the Bureau before acceptance, and they are periodically serviced by the Bureau. 38 new standpipes were installed, 4 permanently removed, 19 altered, and a total of 2642 were in service at the end of the fiscal year..
5. Inspection of, and engineering supervision over the engines and pumps of the Fireboat "Phoenix", including the annual dry-docking repairs.
6. Review of all engineering data and plans prepared by the City Engineer's Office relative to facilities under the supervision of the Bureau.
7. Acts as engineering consultant for the Department on assigned projects.

During the past several years, and continuing, Bay Area Rapid Transit construction activities have necessitated shut-downs and temporary removals of various sections of the AWSS mains along the BART route for varying periods of time. The Bureau, acting through the Transit Task Force of the City, coordinated these activities and made arrangements for the provision of temporary, above-ground, mains with hydrant valves to insure continuity of water supply for fire fighting purposes in the affected areas.

During the past year, work under the Market Street reconstruction bond issue has begun. AWSS mains and hydrants require relocation to accommodate widened sidewalks.

The integrity of AWSS facilities above BARTD tunnels under Market Street had been brought into question as a result of ground settlement. An agreement was signed by BARTD and the City to finance exposure and repair, as necessary, of all AWSS pipe joints in the affected areas. Costs will be met jointly from BARTD and Market Street bond funds. This work was begun during the fiscal year.

As the year drew to a close, the first project under the 1971 Fire Protection Bond Issue was under construction and numerous additional projects were on the drawing board.

FIRE PREVENTION AND INVESTIGATION



DIVISION OF FIRE PREVENTION AND INVESTIGATION

For the second consecutive year, there has been a downward trend in the number of fire alarms and the number of false alarms; however, there was an increase of 163 building fires over the preceding year.

Fire fatalities totaled forty-five (45), which is an increase over the last ten-year average of thirty-seven (37); and incendiary fires totaled 403, an increase of 46 over last year's total.

Although budgetary restrictions have delayed a planned three-year expansion of Fire Prevention Bureau personnel and activities, a new training program has been inaugurated and a Community College sponsored technical training course will commence in September.

Since the completion of the Fire Inspector and Fire Investigator promotional examination, several appointments have been made. By the expiration of the four-year life of the promotional list, all but two members of the Division will be eligible for service retirement. Due to the probability of increased personnel turn-over, continuing training programs are being developed.

Probably the most important achievement in the last year has been the initiation of construction of five high-rise office buildings, which will be protected with a comprehensive "life safety system" developed in a coordinated joint effort by the Fire Department and the Bureau of Building Inspection. Although the several life safety features that protect these buildings were installed on a voluntary basis by the owners, a proposed Building Code amendment is being initiated that will make such protection mandatory in high rise office buildings, hotels and apartments, if passed.

Besides this code amendment, the Bureau of Fire Prevention is participating in a complete review of the Building and Fire Codes. Bureau personnel have also been appointed to an N.F.P.A. committee that is developing a model Fire Code that can be adopted by communities without such protection.

The Bureau of Fire Investigation has applied for a federal grant to initiate an Automatic Arson Information and Identification Retrieval System. The grant was approved in August, 1972 by the Mayor's Council for Criminal Justice and has now been forwarded for processing. If final approval is achieved, the resulting computerized system should assist greatly in the apprehension of arson suspects and will establish an improved fire reporting system.

DIVISION OF FIRE PREVENTION AND INVESTIGATION

SUMMARY OF RELEVANT FIRE STATISTICS

Occupancy Where Deaths Occurred

Dwellings:	18 deaths
Apartments	14 deaths
Hotels	13 deaths

Fatalities by Age Groups

Under fifteen years of age	5	11.1%
Fifteen to sixty-four years of age	28	62.2%
Sixty-five and over	12	26.7%

Most Frequent Cause of Fire

	San Francisco		United States	
	1970-71	1971-72	1970	1971
Smoking and Matches	2,187	1,683	150,500	139,150
Electrical	1,162	1,399	144,950	144,280
Heating & Cooking Equip.	1,105	1,008	79,300	76,200

BUREAU OF FIRE PREVENTION

The operations of the Bureau of Fire Prevention for the Fiscal Year 1971-1972 are reported in statistical form as follows:

Inspections and Corrections:

The number of First Inspections made, Total Inspections and the number of Corrections obtained during the Fiscal Year 1971-1972 were as follows:

Total number of First Inspections Made	11,895
Total number of Inspections	24,387
Total number of Corrections Obtained	10,611

Of the total number of Inspections listed above, 1,145 were Special Complaints from citizens regarding suspected fire hazards, and 159 were Special Investigations of structures involved in Greater Alarms of Fire during the Fiscal Year.

Permit Processing

Fire Department Permits:

Five hundred thirty-five (535) applications for Fire Department Permits were filed in this Division during the Fiscal Year as follows:

Automobile Parking Stations -----	49
Automobile Service Stations -----	66
Burning, Removal of Paint -----	14
Fireworks, Conduct Public Display -----	4
Flammable Finishes, Application of -----	8
Flammable Finishes, Application of -----	
Electrostatic Paint Spraying -----	6
Flammable Liquids, Aboveground Storage -----	2
Flammable Liquids, Replacing of Dispenser -----	39
Flammable Liquids, Underground Storage Tank -----	65
Garage, Automobile Sales -----	22
Garage, Commercial and Truck -----	14
Garage, Public Repair -----	76
Garage, Public Storage -----	21
Garage, Automobile Repairing - Special Branch -----	21
Liquefied Petroleum Gas, Bulk Storage -----	6
Liquefied Petroleum Gas, Service Station -----	4
Liquefied Petroleum Gas, Use of -----	76
Public Assembly -----	27
Theatres and Motion Picture Theatres -----	11
Vending and Standing Space -----	2
Welding and Cutting -----	2

Building Permits.

During the Fiscal Year, the Inspectors of the Bureau of Fire Prevention assigned to the Bureau of Building Inspection processed and passed upon all Building Permit applications and plans which had been submitted to the Central Permit Bureau, as follows:

<u>Classification</u>	<u>Number</u>	<u>Estimated Cost</u>
Type 1	28	\$ 355,076,173
Type 2	1	800,000
Type 3	9	1,319,386
Type 4	20	2,824,083
Type 5	455	52,593,949
Alterations	<u>10,077</u>	<u>51,441,516</u>
TOTALS	10,590	4 464,055,107

During the fiscal year 1971-1972, 873 applications for building permits, new construction or alterations, were passed upon by Inspectors of the Bureau of Fire Prevention.

DIVISION OF FIRE PREVENTION AND INVESTIGATION

Occupancy Permits

Investigations were made and reports forwarded recommending approval or disapproval of fire clearance of applications for permits and licenses as were received from the following Departments or Agencies:

1) City Planning Commission

Auto Wreckers -----	1
Christmas Tree Lots -----	19
Total -----	20

2) Department of Public Health:

Bakeries -----	8
Boarding Homes -----	7
Candy Manufacturers -----	2
Caterers -----	1
Community Centers -----	2
Delicatessen -----	1
Food Preparation and Service -----	53
Groceries -----	19
Health Clubs -----	1
Hospitals -----	10
Laundries -----	45
Liquor Stores -----	2
Medical Center -----	1
Night Clubs -----	2
Pet Hospitals/Shops -----	3
Restaurants -----	100
Salvage Dealer -----	1
Stable -----	1
Taverns -----	6
Warehouses -----	4
Total -----	349

3) Department of Public Works:

Building Occupancy Permits (Temporary) --	57
Building Occupancy Permits (Permanent) --	65
Total -----	122

4) Department of Social Services:

Homes for the Aged -----	207
Homes for Children -----	154
Total -----	361

DIVISION OF FIRE PREVENTION AND INVESTIGATION

5) Police Department:

Amusement Park -----	1
Auto Wrecker -----	2
Cabaret -----	40
Circus -----	2
Dance Hall Keeper -----	51
Driverless Auto Rental -----	18
Entertainment, Place of -----	73
Explosives -----	3
Massage Parlors -----	19
Mechanical Contrivances -----	3
Second Hand Dealer -----	1
Skating Rink -----	1
Theatres -----	29
Total -----	243

6) State Fire Marshall:

Clinics -----	6
Convents -----	1
Family Care Center -----	21
Head Start Program -----	1
Homes for Children -----	7
Hospitals -----	28
Mental Hygiene -----	176
Nursery Schools -----	108
Nursing Homes -----	54
Orphanages -----	1
Total -----	403

Miscellaneous Reports and Communications:

During the Fiscal Year, various reports, communications and actions were undertaken by the Bureau of Fire Prevention and Public Safety involving the following:

- 1) Five hundred seventy-six (576) reports from Battalion Chiefs of special building inspections were received. These reports were processed for investigation and abatement of violations by this Bureau.
- 2) During the year, 335 Notices of Violation regarding non-compliance were issued to obtain compliance with State and Local Safety Codes.
- 3) The number of Communications sent out by this Bureau during the Fiscal Year was 1,308.

Miscellaneous Reports and Communications (Cont'd)

- 4) Numerous meetings, special tests and inspections were made and attended by the officers and members of this Bureau. In addition, Inspectors visited 92 schools, giving 141 talks to a total attendance of 29,955 students.

Fire Prevention Corrections (1971-1972):

Automatic Sprinkler Systems Installed:	
Chutes -----	6
Floor of Occupancy -----	12
Garbage/Trash Rooms -----	20
Stairways/Hallways -----	38
Storage Area -----	66
Other -----	304
Automatic Sprinkler Systems Repaired: ---	233
Buildings Boarded Up -----	47
Buildings Razed -----	467
Egress, Additional Means Provided -----	28
Exit Obstructions Removed -----	241
Exit Doors, Installed or Altered -----	91
Exit Signs and Lights -----	153
Fire Alarm Systems Installed -----	117
Fire Alarm Systems Repaired -----	31
Fire Doors, Installed or Repaired -----	102
Fire Escapes Installed -----	19
Fire Escapes Repaired -----	30
Fire Escapes, Drop Ladders Provided -----	68
Fire Escapes, Obstructions Removed -----	99
Hosereels, Installed or Renewed -----	50
Fire Extinguishers, Installed or Repaired	4,638
Illegal Living Occupancies Removed -----	0
Metal Bins and Covers Provided -----	152
Paint Storage Correction -----	1
Passageways, Yard to Street, Fireproofed --	5
Rubbish Condition Removed -----	648
Stairways, Installed or Enclosed -----	12
Stairways, Obstructions Removed -----	36
Stairways, Repaired -----	33
Transoms Fireproofed -----	228
Warning Signs Installed, "No Smoking", etc.	759
Conditions Referred to Other Departments for Abatement -----	303
Other General Corrections -----	<u>1,574</u>
Total Corrections -----	10,611

DIVISION OF FIRE PREVENTION AND INVESTIGATION

PRINCIPAL BUILDING OCCUPANCIES INSPECTED AND
PRINCIPAL BUILDING OCCUPANCIES IN WHICH FIRES OCCURRED

	<u>New Insp.</u>	<u>Re-Insp.</u>	<u>Total</u>	<u>Fires</u>
THEATRES				
Theatres & Motion Pictures	430	372	802	6
PUBLIC ASSEMBLY				
Bowling Alleys	2	2	4	1
Churches	81	124	205	21
Clubs (Private)	26	56	82	17
Halls	129	94	223	13
Night Clubs	297	303	600	2
Restaurants	826	1,641	2,467	103
Taverns	115	147	262	19
SCHOOLS				
Elementary	303	245	548	59
Junior High	21	19	40	21
Senior High	46	61	107	22
College	27	78	51	4
INSTITUTIONS				
Homes for Aged	228	130	358	0
Homes for Children	196	198	394	0
Hospitals	204	44	248	59
Mental Hygiene	484	234	718	0
Nursing Homes	135	18	153	9
HAZARDOUS				
Garage, Auto Sales	48	65	113	4
Garage, Commercial & Truck	61	55	116	9
Garage, Public Repair	413	425	838	6
Garage, Public Storage	222	201	423	20
Paint Shops	27	11	38	1
Woodworking & Cabinet Shops	33	45	78	1
BUSINESS				
Bakeries	14	28	42	2
Clothes Pressing Shops	14	15	29	3
Clothing Stores	44	52	96	14
Department Stores	69	60	129	47
Furniture Stores, Whse, & Retail	34	36	70	6
Gasoline Service Stations	668	244	912	8
Grocery Stores	55	44	99	31
Launderettes	40	43	83	29
Laundry	59	30	89	20
Markets	24	41	65	17
Office Buildings	763	1,174	1,937	111
Printing Shops	40	60	100	20
Variety Stores & Gift Shops	99	123	222	9
Warehouses	320	397	717	44

DIVISION OF FIRE PREVENTION AND INVESTIGATION

PRINCIPAL BUILDING OCCUPANCIES INSPECTED AND PRINCIPAL BUILDING OCCUPANCIES IN WHICH FIRES OCCURRED (Cont'd)

NON-HAZARDOUS	New Insp.	Re-Insp.	Total	Fires
Food Processing	41	29	70	7
RESIDENTIAL				
Apartments	2,739	3,053	5,792	1,133
Boarding Homes (Guest Houses)	26	20	46	1
Dwellings (1 & 2 Family)	826	729	1,555	1,420
Hotels	808	1,014	1,822	309
Housing Projects	119	117	236	117
Hotels	29	64	93	6
Rooming Houses	1	8	9	10
VACANT BUILDINGS (all):	111	101	212	75

BUREAU OF FIRE INVESTIGATION

Field Activities:

a) Investigation of Fires:

Special Investigations -----	929
Follow-Up Investigations -----	1,026
Incendiary Origin -----	403
Greater Alarms -----	159
Undetermined Origin -----	5
Burn Cases -----	127
Deaths -----	43

b) Arrests and Dispositions:

Felonies:

Arrests -----	15
Convictions -----	11
Cases Pending -----	7
Acquittals -----	10

Misdemeanors:

Arrests -----	25
Convictions -----	19
Cases Pending -----	2
Acquittals -----	11
Citations -----	8

Juveniles:

Cases held under Juvenile Jurisdiction -----	41
Not cited -----	118

c) Court Appearances and Testimony: 84

d) Special Complaints Referred from Bureau of Fire Prevention:

Investigations -----	83
Follow-up Investigations -----	27

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DIVISION OF FIRE PREVENTION AND INVESTIGATION

BUREAU OF FIRE INVESTIGATION (Cont'd)

Office Activities:

- a) Fire Records - Compiled and Maintained ----- 30,292
- b) Record Search and Copy ----- 5,499
- c) \$2,823.00 was collected and deposited in the General Fund for the processing and sale of copies of Fire Reports to insurance companies and other interested parties.

In addition to the building occupancy fires previously listed, the following fires occurred during the Fiscal Year 1971-1972:

1) BUILDINGS:	
Amusement Center -----	8
Appliance Store -----	1
Art Gallery -----	2
Banks -----	13
Beauty Parlor/Barber Shop -----	8
Book Store -----	3
Chemical Plant -----	3
Drug Store -----	4
Electronic Shops -----	1
Foundry -----	3
Garage (Private) -----	5
Hardware Store -----	3
Jail -----	2
Library -----	5
Liquor Store -----	3
Machine Shop -----	6
Manufacturers -----	21
Mattress Factory -----	1
Metal Shop -----	5
Nursery School -----	3
Police Station -----	1
Post Office -----	1
Sheds -----	53
Stables -----	1
Tannery -----	1

TOTAL BUILDING FIRES

3,993

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DIVISION OF FIRE PREVENTION AND INVESTIGATION

BUREAU OF FIRE INVESTIGATION

2) VEHICLES	
Air Compressor -----	2
Automobiles -----	1,153
Buses -----	36
Fork Lift -----	2
Freight Car -----	5
Motorcycle -----	25
Streetcars -----	1
Tractors -----	4
Trailers -----	8
Trolley Bus -----	4
Trucks -----	95
3) WHARVES AND PIERS -----	21
4) BOATS AND SHIPS -----	6
5) MISCELLANEOUS	
Automobile Wreckers -----	36
BART -----	6
Debris Boxes -----	144
Dumps -----	35
Electric Poles and Wires -----	134
Gasoline Storage Tank -----	1
Lumber Yards -----	1
Mail Boxes (U.S. Govt.) -----	15
Oil Storage Tank -----	1
Street Road Flares -----	3
Tar Pots -----	6
Telephone Booths -----	1
Underground Vaults -----	11
6) GRASS AND RUBBISH	<u>3,610</u>
TOTAL FIRES	
(including building fires)	9,359

FIRE PREVENTION AND INVESTIGATION

PORT FIRE MARSHAL SAN FRANCISCO PORT COMMISSION

This report summarizes in brief the operational functions of the office of the Port Fire Marshal during the fiscal year 1971-72.

The report has been form into two separate sections. The first section contains general statistics on the number and types of fires which have occurred upon Port Commission properties, or contiguous thereto. The second section outlines the fire prevention program in service; enumerating the welding and burning permits, the joint permits for limited storage of explosives and dangerous cargoes upon the piers and aboard ships berthed at piers, - also pertinent fire safety data.

FIRST SECTION

OCCUPANCY AND/OR TYPES OF FIRES OR INCIDENTS

Pier deck, stringer, or piling fires - - - - -	21
Ship and small craft fires - - - - -	6
Automatic sprinkler trouble - - - - -	2
Smoke scares - - - - -	2
Restaurants - - - - -	2
Vans (empty) - - - - -	2
Pallets - stacked - - - - -	1
Rubbish - - - - -	7
Miscellaneous - - - - -	5

Upon investigation and when the fire cause is determined, immediate action is taken to prevent recurrence.

The minor fires occurring over the past year show a substantial decrease. Largely these minor fires are suspected to have been caused by carelessly discarded lighted matches or smoking materials. Also there is a tendency by tenants to permit accumulations of flammable debris.

SECOND SECTION

This section of the report embodies the fire prevention activities of the office of Port Fire Marshal.

Approximately 21 welding and burning permits are issued to certain contractors on a 30 day renewable basis for utility and general maintenance purposes. The remainder are one project jobs with permit expiring upon completion. All hot work must be done according to Article 18 - Division 3 - San Francisco Fire Code.

Permits issued for welding and burning, largely ship repairs - - - - -	849
Certified Chemists gas free certificates, where required for above - - - - -	211
Joint permits for movement of dangerous cargo, limited storage - - - - -	60
Joint permits for movement of explosives, storage prohibited - - - - -	22
Joint permits for movement of reactive chemicals - - - - -	10
Joint permits for movement of radioactive materials - - - - -	4
Permits for fumigation of cargoes or ships - Chief Wharfinger - - - - -	188

FIRE PREVENTION AND INVESTIGATION

The number of cargoes of hazardous materials through the Port has decreased somewhat. This is noteworthy particularly in the reactive chemicals. Fumigations upon cargo in transit are stable. These are conducted by licensed private contractors, using plastic covers - and inserting Methyl Bromide.

In each of the above instances (hazardous cargoes and fumigations) - on site inspection is made by this office. Then the nature of the product and its location on the pier is phoned to the San Francisco Fire Department Communications Center. This information is teletyped to the division and district firefighting headquarters throughout the city.

The joint permits mentioned are five copy, multi-color units, signed by Chief of Department S.F.F.D., Captain of the Port U.S.C.G., Port Fire Marshal S.F. Port Commission, and Chief Harfinger S.F. Port Commission. Copies are distributed to all principals and to the applicant.

REMARKS:

In normal function the operations of the office of the Port Fire Marshal are closely correlated with the offices of:

- The Administrative Staff, and Department Heads, San Francisco Port Commission.
- The Chief of Department, San Francisco Fire Department.
- The Chief, Division of Fire Prevention and Investigation, S.F.F.D.
- The Captain of the Port San Francisco, United States Coast Guard.
- The Bay Area Waterfront Fire Safety Council, including the cities of:
 - Oakland, Alameda, Stockton, Sacramento, Richmond, and Redwood City.
- The Pier Superintendents and managerial staffs of shipping companies.

1. The first part of the report is a general introduction to the subject of the study. It discusses the importance of the study and the objectives of the research.

2. The second part of the report is a detailed description of the methodology used in the study. It includes information about the sample size, the data collection methods, and the statistical analysis techniques.

3. The third part of the report is a discussion of the results of the study. It presents the findings of the research and discusses their implications for the field of study.

4. The fourth part of the report is a conclusion and a list of references. The conclusion summarizes the main findings of the study, and the references list the sources of information used in the research.

5. The fifth part of the report is a list of appendices. These appendices contain additional information that is relevant to the study but is not included in the main body of the report.

6. The sixth part of the report is a list of figures and tables. These figures and tables provide a visual representation of the data and results of the study.

7. The seventh part of the report is a list of footnotes. These footnotes provide additional information about the study and its findings.

8. The eighth part of the report is a list of acknowledgments. These acknowledgments thank the individuals and organizations that provided support and assistance during the study.

9. The ninth part of the report is a list of references. These references list the sources of information used in the research.

10. The tenth part of the report is a list of appendices. These appendices contain additional information that is relevant to the study but is not included in the main body of the report.

NATIONAL FIRE PREVENTION WEEK

NATIONAL FIRE PREVENTION WEEK, which emphasizes fire safety rules for the public, was officially proclaimed by Mayor Alioto for the week of October 3-9, 1971.

Fire Prevention Week has special significance this year for the history-minded, as it marks both the 100th anniversary of the Great Chicago Fire of 1871 and the 50th year that Fire Prevention Week has been observed. The Week is always scheduled for the Sunday-through-Saturday period which includes October 9, date of the Chicago conflagration which killed more than 200 persons, left some 100,000 others homeless, destroyed almost 17,500 buildings, blackened 2,100 acres, and cost about \$168 million in direct losses.

Fire Prevention Week was first observed in 1911 and encourages, through the news media, together with related Fire Department programs, public interest in all phases of fire safety.

San Francisco's Fire Prevention Week adheres to the basic pattern outlined above. In addition to the official proclamation issued by the Mayor, this year's observance also included the following:

- 1) SATURDAY, OCTOBER 2)
SUNDAY, OCTOBER 3) Celebration at Marine World - Redwood City
- MONDAY, OCTOBER 4 Funeral Cortege - Federal Building
450 Golden Gate Avenue -
Delivery of casket into main lobby to be
placed in display for entire week together
with graphic visual displays. Tape recorded
message from the casket dwelling on deaths
by fire.

1100 through Hourly showing of the film "Fire Fighter"
1600 hours 2nd floor, South End, Main Corridor off
elevators.

Extinguisher display entire week, 2nd floor,
North.
- Firehouses and the S.F.F.D. Museum were open to the public daily,
October 3rd through October 9th, 1000 hours through 1600 hours.
- WEDNESDAY, OCTOBER 6 S.F.F.D. hosted International Press Repre-
sentatives at TWA sponsored luncheon.
- THURSDAY, OCTOBER 7 DIVISION OF TRAINING:
1000 hours - Division of Training
LARGEST MERITORIOUS AWARDS CEREMONY IN THE
HISTORY OF THE S.F.F.D.

THURSDAY, OCTOBER 7

AWARDS

2 Class A Awards
17 Class B Awards
8 Class C Awards
39 Class D Awards

66 Total

Note: There were 3 fathers and sons, firemen,
who received awards this day.
ALSO: 3 members received duplicate awards.

FRIDAY, OCTOBER 8

Two full courses in Oral Resuscitation were
given to Federal Building employees.

2) SATURDAY, OCTOBER 9

DIVISION OF TRAINING
Located at Folsom & 19th Street

Open to public 10:00 AM to 4:00 PM

NEWEST FIRE APPARATUS ON DISPLAY IN
TRAINING YARD

THE FOLLOWING FILMS AND DEMONSTRATIONS
WERE SCHEDULED:

10:30 AM	"Firefighter" - film
11:30 AM	"Breath of Life" - film, and Resuscitation Demonstration
12:30 PM	"Firefighter" - film
1:30 PM	"Breath of Life" - film, and Resuscitation Demonstration
2:30 PM	"Firefighter" - film
3:30 PM	"Breath of Life" - film, and Resuscitation Demonstration

3) Members of the Bureau of Fire Prevention and those department members
connected with Special Service Units were employed at various presen-
tations and demonstrations.

TRAINING



DIVISION OF TRAINING

During Fiscal Year 1971-1972, the Division of Training continued its function as the directional center of instruction for the Department.

Three new concepts of training were introduced during the year:

1. Night training
2. Company evaluation
3. Battalion evolutions

Night training began November 8, 1971, and is continuing. This training has increased company activity at the Division of Training by 75%. It involves detailing companies to the Division during evening hours each work day and having them perform one or more evolutions. They are then evaluated by the Training Officer and returned to their quarters.

Work load on the training staff increased considerably as no extra manpower has been allotted to facilitate this training. The biggest drawback that has been caused by this extra load has been in the area of planning.

Company evaluation is a concept by which companies perform one or more evolutions at the training center. Companies have been advised through training bulletins what these evolutions will involve. The Training Officer evaluates the performance of the company and files a report. Companies are advised of their performance and where necessary are scheduled for re-evaluation. Where performance is below standard, the Battalion Chief of the concerned district is notified. This concept of training places more responsibility for instruction on field personnel.

Battalion evolutions began March 2, 1972. Battalion evolutions involve participation of a District Chief, his Operator, three of his Engine companies and one Truck company. At the Fire College, a Training Officer presents the group with a fire problem. The Battalion Chief then directs his companies in extinguishing the fire and performing other tasks required by the problem. A critique is then conducted by a Training Officer at which the methods utilized in solving the fire problem are discussed and evaluated by the group. These evaluations provide an opportunity for the companies who respond together to learn together. These sessions also provide an opportunity for a Battalion Chief to put a number of his companies to work and evaluate their performance.

Direct training was conducted on various levels, ranging from basic courses in firemanship and indoctrination into the Department for the recruits entering the fire service, to the maintenance of basic skills and proficiency of the fire-fighting companies, plus the introduction of new equipment, concepts and practices.

1. The first part of the report is a general introduction to the subject of the study.

2. The second part of the report is a detailed description of the methods used in the study.

3. The third part of the report is a discussion of the results of the study.

4. The fourth part of the report is a conclusion and a list of references.

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DIVISION OF TRAINING (Cont'd)

During the past year, 49 recruits received indoctrination and training at the Fire College. All have been assigned to fire-fighting companies and are qualified to perform the many duties of a fireman and are certified to assume the responsibilities of Driver, Pump Operator, and Tillerman.

The Division assists the Airport Division in their specialized training and coordinates the training of specified municipal units in Aircraft and Rescue Operations. A special indoctrination in the use of the Aerialscope was given to all First Alarm Companies due at the Airport.

The staff of the Division of Training assists the Bureau of Equipment in the testing of new apparatus and equipment. It continues to remain the liaison with the Department of Motor Vehicles in the licensing of Department drivers. The Division of Training also processes Department Identification Cards.

In accord with the Division of Industrial Relations, State of California, the Division of Training is continuing the Apprenticeship Program under the Veterans' Administration whereby recruits, who are veterans, receive benefits as apprentice trainees. The Division administers the required clerical work through the period of said benefits.

The Division of Training is the center for budgeting, ordering, and dispensing protective clothing for the fire-fighting forces.

In addition to the normal functions of the Division of Training, the following courses have been conducted at the Fire College:

1. Chief Officers received instruction relative to issuing Traffic Citations.
2. Chief Officer Seminars were held on the following subjects:
 - a) High Rise Fire-Fighting
 - b) Airport Fire-Fighting
 - c) Radiation Hazards
 - d) Alcoholism

Arrangements were made to send all fire-fighting units to the U.S. Navy Fire Fighting School, Treasure Island.

Overhaul and ventilation training were scheduled in cooperation with the Western Addition Redevelopment Agency. At these times, members are sent to condemned buildings to receive instruction in forcible entry, ventilation, salvage and overhaul procedures. All power appliances are put to work and all personnel receive training in their use. During fiscal 1971-1972, 68 Truck Company crews participated in these sessions.

In compliance with State requirements, all fire-fighting personnel must complete the Standard First Aid Course. During fiscal 1971-1972, 1535 completed the course. Current schedules call for all men to be qualified by October, 1972.

DIVISION OF TRAINING (Cont'd)

Budgeting for, maintenance of, and instruction in the Departmental breathing apparatus program is under the jurisdiction of our Technical Supervisor, Operator John Mitchell. He is, additionally, the Departmental Specialist in emergency resuscitation and supervises instruction within the Department on both subjects. He conducts all instruction on these topics to the recruit classes at the Fire College and he holds refresher sessions for the fire companies in the field.

As a public service, and on request from various organizations, Operator Mitchell conducts a program of Public Education on Emergency Resuscitation.

During the Fiscal Year 1971-1972, 73 companies on three shifts (610 men) received two-hour training sessions on resuscitation. At the Fire College 51 Probationary Firemen were trained in resuscitation procedures.

Summary of training performed by Operator Mitchell is detailed as follows:

In-Service Fire Companies trained:

73 Companies	-	610 men	-	1525 man/hours
51 Probationaries	-			127.5 man/hours
20 Fire Safety Technicians	-			50 man/hours

Total				<u>1702.5 man/hours</u>
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Public Education Training conducted:

75 lectures - 5131 persons - 10,262 man/hours

Recap of the last year's (1971-1972) experience in resuscitation service performed these figures:

Resuscitation Responses	626
Positive Results	479
Negative Results	147
Mechanical Resuscitation	489
Mouth-to-Mouth	16
External Heart Compression	121

There are now 32 Elder Resuscitators in-service distributed to various units in the Fire Department.

FIRE FIGHTING SERVICES



FIRE FIGHTING SERVICES

Headquarters
Chief Officers

DIVISION NO. 1

Headquarters

Engine Co. No. 1	115 Drumm Street
Engine Co. No. 5	1340 Powell Street
Engine Co. No. 14	109 Oak Street
Engine Co. No. 4	676 Howard Street

DIVISION NO. 2

Engine Co. No. 34	1301 Turk Street
Engine Co. No. 15	2150 California St.
Engine Co. No. 21	1443 Grove Street
Engine Co. No. 46	441 - 12th Avenue
Engine Co. No. 49	2155 - 18th Avenue

DIVISION NO. 3

Engine Co. No. 10	2300 Folsom Street
Engine Co. No. 13	3880 - 26th Street
Engine Co. No. 38	1000 Ocean Avenue
Engine Co. No. 42	2430 San Bruno Avenue

Division No. 1

Battalion No. 1
Battalion No. 2
Battalion No. 3

Division No. 2

Battalion No. 4
Battalion No. 5
Battalion No. 7
Battalion No. 8

Division No. 3

Battalion No. 6
Battalion No. 9
Battalion No. 10

Airport Division

S. F. International Airport
Airport Rescue Company No. 1 and No. 2.

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Organization

The 1971-1972 organizational plan of the firefighting divisions, battalions, companies, and special units of the Department is detailed in the Organization Chart contained in this report. Personnel assigned thereto is detailed in the Personnel Chart of this report.

In order to provide the required manpower to implement the reduction of hours of the firefighting force from 49.7 to 48.7 hours per week, the following budget requests, budget replacements and Company deactivations were instituted to obtain the required 5 Lieutenants and 26 Firemen to implement this reduction in hours.

<u>H-2 Fireman</u>		<u>H-20 Lieutenants</u>
Budget - New	3	1
Budget - Replacement	3	0
Company Deactivation		
Salvage Cos. #2 and #4	<u>20</u>	<u>4</u>
	26	5

Salvage Company No. 1 will remain in service, manned with a complement of four men, for First Alarm Response to the City's High Value District. Salvage Units #2, #3 and #4 will be placed in Reserve Status, fully equipped and will be housed in stations with sufficient manpower necessary to dispatch any of these Reserve Units to an emergency requiring additional Salvage Equipment. In addition thereto, the nearest available Reserve Salvage Unit will automatically be dispatched to any Greater Alarm occurring within the City's High Value District. Further, a Supplemental Appropriation request was submitted to the Mayor and Board of Supervisors to provide funds to equip all Engine and Truck Companies with Salvage equipment as specified in the N.F.P.A. Pamphlet No. 19, Automotive Fire Apparatus, 1970 Edition, and was instituted during the 1971-1972 fiscal year.

Department Buildings

The various units of the Department are stationed in the following buildings:

- 1 Department Headquarters
- 44 Company Stations
- 2 Airport Company Stations
- 1 Communications Center
- 1 Assignment Center (located at Department Headquarters)
- 1 Bureau of Equipment Headquarters
- 2 Pumping Stations (High Pressure System)
- 1 Reservoir Station (High Pressure System)
- 2 Warehouses (Storage)
- 1 Deactivated Company Station
- 1 Pipe Yard Station (High Pressure System)

Construction, reconstruction, and resultant relocation of Company Stations, as authorized by the 1964 Bond Issue are detailed in the Division of Planning and Research report.

1. The first part of the report is a summary of the work done during the last year. It is a very short summary, but it gives a good idea of what has been done.

2. The second part of the report is a description of the work done during the last year. It is a very long description, but it gives a good idea of what has been done.

3.

4. The fourth part of the report is a description of the work done during the last year. It is a very long description, but it gives a good idea of what has been done.

(1997-1998)

Apparatus and Equipment

The Department submitted a \$8,491,000 Bond Issue to the voters in the General Election held on November 2, 1971. This bond issue was successful and because of it, the citizens of San Francisco will be provided with increased, modernized fire protection. The main thrust of this long needed improvement program will be new firefighting apparatus and equipment. When purchased, the apparatus will consist of:

- 10 - New Triple Combination Pumpers, diesel powered with automatic transmissions.
- 4 - New Aerial Ladder Trucks, diesel powered with automatic transmissions.
- 1 - Snorkel Truck.
- 3 - Articulated Squirt Apparatus, mounted on Hosetender chassis, to replace our out-moded Water Towers.
- 1 - New Fireboat to augment the Fireboat "Phoenix".
- 4 - Tank Wagons with removal plastic tanks to increase versatility. These trucks will be equipped with four-wheel drive.
- 1 - Trailer to transport six inch auxiliary aluminum water mains.
- 1 - Proposed new special truck for cliff and shoreline rescues.

The purchase of this apparatus will place our first line apparatus within the established fifteen year life span that is desired. It will also give the Department fairly modern reserve apparatus to be used when regular units are undergoing repairs, or to be utilized in times of disaster or multiple major alarm fires when the off-duty shift has been recalled. In addition, all new apparatus will have new equipment financed by this long-term program.

Noted in the Planning and Research section of this Annual Report are other benefits derived by the bond.

On November 3, 1971, three new Triple Combination Pumpers were received at the Central Shop. Early in 1972, five hundred and sixty lengths of two and three quarter inch hose was received from shipment. At the same time, four hundred lengths of one and one half inch hose arrived with the delivery.

FIRE FIGHTING SERVICESEmergency Response

During the fiscal year July 1971 to June 1972 inclusive, the Department responded to 30,292 alarms, a decrease of 435 alarms below the previous fiscal year.

	<u>Bell Alarms</u>	<u>Still Alarms</u>	<u>No Alarm Fire</u>	<u>Total</u>
July 1971	1,798	1,253	3	3,054
Aug. 1971	1,687	1,096	9	2,792
Sept 1971	1,530	1,129	3	2,662
Oct. 1971	1,445	1,072	2	2,519
Nov. 1971	1,267	1,023	1	2,291
Dec. 1971	1,148	1,005	5	2,158
Jan. 1972	1,256	1,057	1	2,314
Feb. 1972	1,132	932	5	2,069
Mar. 1972	1,329	957	1	2,287
Apr. 1972	1,362	982	5	2,349
May 1972	1,438	1,316	1	2,755
June 1972	<u>1,554</u>	<u>1,488</u>	<u>0</u>	<u>3,042</u>
TOTALS:	16,946	13,310	36	30,292

Seven Year Comparison

	<u>Bell Alarms</u>	<u>Still Alarms and No Alarm, Fires - Combined</u>	<u>Total</u>
1970-1971	17,488	13,239	30,727
1969-1970	20,130	13,489	33,619
1968-1969	19,344	11,675	31,019
1967-1968	17,200	12,362	29,562
1966-1967	11,993	10,373	22,366
1965-1966	10,851	10,597	21,448
1964-1965	8,781	9,151	17,932

False Alarms

	<u>Boxes False</u>	<u>Stills False</u>	<u>Total False</u>
July 1971	1,227	25	1,252
Aug. 1971	1,187	27	1,214
Sept 1971	1,002	33	1,035
Oct. 1971	942	31	973
Nov. 1971	790	13	803
Dec. 1971	687	31	718
Jan. 1972	807	17	824
Feb. 1972	764	17	781
Mar. 1972	881	23	904
Apr. 1972	868	14	882
May 1972	905	38	943
June 1972	<u>998</u>	<u>29</u>	<u>1,027</u>
TOTALS;	11,058	298	11,356

FIRE FIGHTING SERVICES

Total Street Fire Alarm Boxes Activated *

	<u>F. A. Boxes Activated *</u>	<u>F. A. Boxes False</u>	<u>Street F. A. Boxes</u>	<u>Street F. A. Boxes False</u>
July 1971	1,780	1,227	1,459	1,111
Aug. 1971	1,666	1,187	1,309	1,056
Sept 1971	1,498	1,002	1,143	892
Oct. 1971	1,412	942	1,072	850
Nov. 1971	1,234	790	869	683
Dec. 1971	1,124	687	755	598
Jan. 1972	1,235	807	922	737
Feb. 1972	1,111	764	855	717
Mar. 1972	1,306	881	1,009	810
Apr. 1972	1,324	868	1,001	791
May 1972	1,416	905	1,133	811
June 1972	<u>1,538</u>	<u>998</u>	<u>1,334</u>	<u>912</u>
TOTALS:	16,644	11,058	12,861	9,968

* This figure is minus Greater Alarms, Special Calls and No Alarms.

It is noted that of the total 16,644 Fire Alarm Boxes activated during the fiscal year 1971-1972, 12,861 of these Fire Alarm Boxes were activated by citizens from Street Fire Alarm Boxes, of which 9,968 were False Alarms, for an average of 77 per cent. The difference between the total fire alarm boxes activated and the number of street fire alarm boxes activated -- 3,783 -- denotes the number of box alarms determined by the dispatcher.

Fires

Bell Alarms	4,278
Still Alarms	5,045
No Alarms	<u>36</u>
Total:	9,359

Special Calls

In conjunction with other alarms	143
--	-----

Major Alarms

Second Alarms	119
Third Alarms	31
Fourth Alarms	9
Fifth Alarms	<u>0</u>
Total:	159

Extent of Fires

	<u>Yes</u>	<u>No</u>
Confined to Floor of Origin	3,848	145
Confined to Building of Origin	3,909	84

Deaths at Fires

Male	18
Female	25
Total	43 *

* Two additional fatalities occurred several months after the date of the original fire - one male and one female - to bring the actual total of deaths at fires during the fiscal year to 45.

Type of Response (1971-1972):

Building Fires

Theatres	6
Public Assembly	176
Schools	106
Institutions	68
Hazardous	41
Business	361
Non-Hazardous	7
Residential	2,996
Vacant Buildings	75
Other, Miscellaneous Buildings	<u>157</u>
Sub-Total	3,993

Vehicles 1,335

Wharves and Piers 21

Boats and Ships 6

Grass and Rubbish 3,610

Miscellaneous Fires 394

Total Fires 9,359

Emergencies Other than Fires

(Including 544 Resuscitations) 9,097

Vicinities 178

Greater Alarms 159

Special Calls. 143

False Alarms 11,356

GRAND TOTAL OF ALARMS (TOTAL RESPONSE) 30,292

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CAUSES OF ALARMS

AUTOMOBILE (and other vehicles)	
Backfiring through carburetor	332
Colliding with Fire Alarm Box	14
Colliding with Fire Hydrant	152
Motor igniting	197
Overheated brakes	15
Overheated transmission	10
Smoking igniting seats and upholstery	347
Wiring	301
BOMBS	8
BURNING PAINT FROM BUILDING, Igniting	3
BURNING TORCH IGNITING COMBUSTIBLES	89
CANDLES, IGNITING COMBUSTIBLES	59
CHIMNEYS:	
Defective and/or overheated	32
Sparks from igniting combustibles	20
DEBRIS BOX:	146
DUMPS	33
ELECTRIC	
Automatic Alarms, accidentally actuating	337
Blankets	2
Dishwashers	13
Dryers	26
Elevators	63
Extension cords	38
Fluorescent Lights	80
Fuses Blown	10
Garbage Disposal	3
Globe, igniting inflammables - too close -	20
Heater	46
Heating Light	2
Heating Pads	0
Iron	5
Manhole and Underground Vaults	4
Motors	95
PG&E Wires and Poles	193
Plate	22
Radio	9
Refrigerator Motors	16
Sign Boards	2
Stoves	44
Television	41
Toasters	9
Transformers	38
Washing Machines	28
Wiring, Defective in Building	263
FALSE ALARMS	11,356
FIREPLACE (Defective and/or Overheated	78
FIREWORKS	32
FRICTION	10
GARBAGE CHUTES	156

GAS

Boilers	25
Dryers	42
Escaping and Igniting	10
Furnaces	101
Heaters	0
Stoves, burnt food	534
Stoves, overheated	139
Water heater	91
GASOLINE VAPORS IGNITING	16
GRASS AND RUBBISH	3,610
GREASE IN FLUE IGNITING	109
HOT ASHES IGNITING COMBUSTIBLES	4
INCENDIARY	403
INCINERATORS	0
JUVENILES WITH MATCHES, igniting combustibles	310
LOCK-OUTS AND LOCK-INS	622
MISTAKEN ALARMS	1,046
MOLOTOV COCKTAILS	21
REFRIGERATION SYSTEMS, Leaking	87
SMELL OF GAS	256
SMELL OF SMOKE	975
SMOKING	
Igniting awnings	38
Igniting bedding and mattresses	437
Igniting chesterfields and chairs	114
Igniting combustibles	935
SPECIAL SERVICES	
Assists and Rescues	1,177
Resuscitations	544
Other	1,159
SPONTANEOUS COMBUSTION	16
SPRINKLER SYSTEMS, Actuating	116
STEAM MISTAKEN FOR SMOKE	43
STREET ROAD FLARES	6
TAR KETTLE IGNITING	7
UNDETERMINED	5
VAPORS (Inflammable Igniting)	65
VICINITIES	178
WASH DOWN STREETS	1,262
WATER LEAKING	683
XMAS TREES	5
TOTAL	29,990
GREATER ALARMS	159
SPECIAL CALLS	143
GRAND TOTAL OF ALARMS	30,292

FIRE FIGHTING SERVICES

False Alarms - Seven Year Comparison

1971-72	-----	11,356
1970-71	-----	11,790
1969-70	-----	13,355
1968-69	-----	12,594
1967-68	-----	7,072
1965-66	-----	5,242
1964-65	-----	3,908

Special Services:

The Department responded to 9,097 alarms for other than fire service during the past year. These alarms included resuscitations, first-aid, lock-outs, cliff rescues, automobile accidents, people trapped in elevators, cave-ins, industrial accidents and a wide variety of other emergencies.

The services of the Department are increasingly sought for resuscitation and first-aid assistance. The responses involving resuscitations totaled 496 within the City of San Francisco and 393 at the San Francisco International Airport for a total of 889 responses.

Every member of the Department is trained and up-dated continually in resuscitation techniques. Rapid response to any incident of this type is assured through the strategic Fire Station locations throughout the city.

Salvage Operations

1. Salvage Operations are essential in the reduction of fire damage and property loss from other than fire such as wind-storm and rain damage, broken water pipes, and other water leaks.
2. The majority of engine companies as well as all truck companies are being equipped with salvage covers and equipment due to the transfer to reserve status of Salvage #2, #3 and #4.
3. Salvage Company #1 remains in service with definite first and second alarm response assignments and is available for still alarm and special call. Reserve Salvage Companies #2, #3 and #4 respond as directed by officer-in-charge of the Communication Center.
4. The officers and members of Salvage Company #1, as well as all members of units performing salvage work are to be commended not only for reducing fire damage and losses, but also for establishing admiration, respect, goodwill, and good public relations for the Fire Department from the citizens of San Francisco.

The following salvage operations were performed during the period, July 1, 1971 through June 30, 1972.

SALVAGE COMPANY # 1

Alarms responded to:	1,027
Salvage covers spread :	475
Roof covers spread :	59
Sprinkler heads replaced :	41
Sawdust used (floor drying) :	4
Roofing paper (rolls) :	15
Polyethelyne (rolls) :	27

In addition, engine, truck and reserve salvage companies performed the following salvage operations.

Alarms responded to :	351
Salvage covers spread :	229
Roof covers spread :	111
Sprinkler heads replaced :	157
Roofing paper (rolis) :	14
Polyethelyne (rolls) :	23

The billing for roof and salvage cover rentals in the fiscal year 1971-1972 totalled \$6,994.50. This revenue is returned to the City and County of San Francisco.

The sand unit, assigned to Engine No. 3, responded to 26 calls and used 18 fifty pound sacks of sand, 59 five gallon buckets of sand, and 3 sacks of sawdust.

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Water Rescue and Firefighting Scuba Unit

The Diving Unit continues in operation for the twelfth year. The unit evolved from a semi-official organization to an organized arm of the fire service. It started with a little more than a handful of divers, growing to its present force of 35 trained divers. The unit has in the past performed services of an emergency nature dealing with search and recovery, salvage work, and beach and surf rescue, assisting the police and the military as well as firefighters on piers. The unit has performed operations from land, from ships, and from helicopters. The unit has performed for groups and for civilians as part of fire prevention shows. It also has been filmed for television, news, and magazine articles.

The past fiscal year saw the units being equipped with its own apparatus. Through the efforts of Chief of Department Keith Calden and the cooperation and excellent work of the Central Shops, an old police paddy wagon was reconstructed and built into an excellent scuba apparatus. The vehicle was put in service in January of 1972 and is now stored in the quarters of Rescue Squad #2. The apparatus is completely equipped with all the diving gear needed for any emergency. It can also be used as a dressing room and is equipped with a heater for the divers. The apparatus is referred to as Water Rescue Unit #1. Equipment for divers is also carried on Rescue Squads #1 and #2. Upon receipt of this apparatus, the unit made a three day tour of all Battalion and Division headquarters with the purpose of acquainting the chief officers of the Department with the potential of this apparatus and of the Diving Unit. Following is a list of operations of the Diving Unit for the past fiscal year:

Emergency Operations	15	Service 30 hours
Drills & Training	9	Service 40 hours
Performances for Public	5	Service 28 hours
Total Service		98 hours

In the future, it is contemplated that the team will undergo re-training with new divers through a diving class operated by Captain Edwin Phipps, officer in charge of the unit, and Fireman Robert A. Moore. Replacement of equipment has been started, and the replacement of badly worn or damaged equipment is underway. This fall drilling on surf and beach rescue techniques, possibly in conjunction with the S. F. Park & Recreation Department Aquatics Division and the U. S. Coast Guard, will begin. Thanks is again extended to Chief of Department Keith Calden for his help and assistance, the officers and crew of the Fireboat "Phoenix", both the Rescue Squads, and to the Central Shops for their hard work and inventiveness in restoring the present Water Rescue Unit to service.

The first part of the report is a general introduction to the subject. It discusses the importance of the subject and the scope of the study. It also mentions the objectives of the study and the methods used. The second part of the report is a detailed description of the results of the study. It includes a discussion of the data and the conclusions drawn from it. The third part of the report is a summary of the findings and a list of references.

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Harassment - Incidents

During the fiscal year of 1971-1972 the following incidents involving harassment occurred. Based on reports received, they are classified as follows:

<u>Type of Harassment</u>	<u>No. of Incidents</u>
Rocks and other types of missiles thrown at firefighters or responding apparatus	12
Verbal abuse and threat of bodily harm	7
Firefighters threatened by shot-gun pellets	1
	<hr/>
Total	20

The total number is a decrease of ten from the previous year and discloses a continual downward trend in harassment incidents. This trend is attributed to the efforts of our Community Relations Bureau and F.L.A.M.E., our sports program for juveniles.

Apparatus subject to initial response in areas of high harassment incident, are provided with cabs to protect personnel assigned thereon from thrown missiles when responding to, or returning from, emergency alarms.

Additional protection is provided all firefighting companies by use of the "Toptex" helmets, designed to provide maximum protection of the head, face, neck and ears against thrown or falling objects for each firefighter assigned thereto.

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AIRPORT DIVISION

Personnel

The Airport Fire Department is a Division of the San Francisco Fire Department assigned to the San Francisco International Airport. The members assigned to the Airport are experienced firemen who are specially trained in the techniques of aircraft rescue and fire suppression.

The 1971-72 authorized personnel complement of the Airport Division of the San Francisco Fire Department is as follows:

1	H-30	Captain	Airport Fire Marshall
1	H-10	Chief's Operator	Fire Marshall's Aide & Training Officer
6	H-20	Lieutenants	Company Officers
* 45	H-2	Firemen	Drivers and Equipment Operators

- * The 1970-71 budget provided for the addition of an Aerialscope Ladder Truck to the firefighting equipment for the Airport Fire Department. This addition necessitated the increase of seven (7) firemen to provide a complement of two men per shift as the company strength of the Aerialscope.

Organization:

The Airport Division is organized into two Airport Rescue Companies. Airport Rescue Station #1 is located in Hangar #4, facing taxiway Alpha (A) between taxiways Sierra (S) and Romeo (R). The Airport Division Headquarters and Rescue Company #1 are housed in this station. Three Lieutenants and thirty-one (31) firemen are assigned to Rescue Company #1.

Airport Rescue Station #2 is located 750 feet northwest of the intersection of taxiways Charlie (C) and Echo (E). Three Lieutenants and fourteen (14) firemen are assigned to Rescue Company #2.

The Airport Fire Marshall and aide, the Training Officer, work a five day week, 0800 to 1700 hours, and are subject to recall during their off-duty status. All other personnel work the standard tour of duty of the San Francisco firefighting force. This allows for a daily manning of one (1) officer and nine (9) firemen at Rescue Station #1 and one (1) officer and four (4) firemen at Rescue Station #2.

Responsibilities:

The Airport Division of the San Francisco Fire Department is responsible for:

- Aircraft Rescue and Fire Protection applicable to the standards newly specified by the Federal Aviation Agency (FAA) Advisory Circular 150/1510-6A App. 1, Index IX, and National Fire Protection Association (NFPA) Code 403, Table 1A and 1B, Index 6.
- Structural fire protection to standards specified by the Pacific Fire Rating Bureau.
- Emergency First Aid and Resuscitation.
- Building Inspection of Airport Facilities.
- Fire Prevention and Inspection of Airport Facilities.
- Administrative management, including: budget preparation, equipment specifications, purchasing, contracts, permits, maintenance of records, personnel management, and training.

1. The first part of the document discusses the importance of maintaining accurate records of all personnel movements and activities. This is essential for ensuring the security and integrity of the organization's operations.

2. The second part of the document outlines the specific procedures for conducting personnel interviews and investigations. These procedures are designed to ensure that all inquiries are conducted in a fair, consistent, and thorough manner.

3. The third part of the document provides a detailed overview of the various types of personnel files and the information that should be maintained in each. This includes both personal and professional information.

4. The fourth part of the document discusses the importance of maintaining the confidentiality of personnel information and the steps that should be taken to protect this information from unauthorized access or disclosure.

5. The fifth part of the document provides a summary of the key points discussed in the previous sections and emphasizes the importance of ongoing communication and cooperation between all personnel involved in the personnel management process.

6. The final part of the document provides a list of references and additional resources that may be useful for personnel management professionals. This includes both internal and external sources of information.

AIRPORT DIVISION

Rating:

The Airport Fire Department is rated under classifications specified in NFPA Code 403 as Index 6, and in FAA AC 150/1510 as Index IX. The deficiencies are one "Quick-Dash" dry chemical truck and a discreet radio frequency for the use of emergency vehicles only.

Fire Hose (Airport Complement)

<u>Size</u>	<u>In Service</u>	<u>In Reserve</u>	<u>Total</u>
2-3/4 in.	5500 feet	2000 feet	7700 feet
1-1/2 in.	1650 feet	800 feet	2450 feet
1 in.	2400 feet		2400 feet

Water Supplies

Fire Hydrants

Two hundred and thirty-four (234) Fire Hydrants are in service at the Airport. All hydrants have at least one-three inch outlet.

Tanks and Pumps

<u>United Airlines Tanks and Pumps</u>	- 2 - 500,000 gal. w/9 2500 GPM Diesel powered pumps.
	1 - 320,000 gal. w/3 2500 GPM electric powered pumps.
<u>American Airlines Tanks and Pumps</u>	3 - 750,000 gal. w/7 4000 GPM Diesel powered pumps.
	2 - 6,000 gal. foam tanks using 3% protein foam.
<u>Airport Tank and Pump</u>	1 - 300,000 gal. w/3 2500 GPM electric powered pumps & 1 Diesel Pump.
<u>Pan AM Pump</u>	3 - 2500 GPM Pumps. 2 electric and 1 Diesel powered.
<u>TWA Pump</u>	1 - 2500 GPM Diesel powered pump.

The UAL 320,000 tank and pump, and the Airport tank and pump are connected to Airport mains and can be used to augment existing facilities. Pumps are connected to local mains and sprinkler and deluge systems. Stand-pipes are located at the north and south ends of the Central Terminal, three positions on the east side of the garage, UAL operations building, UAL freight terminal and Air West Airlines Maintenance Facility.

Fire Alarm System:

In addition to the BRIGADE telephone alarm system and the CRASH alarm system, there are four "Phantom" Fire Alarm Boxes used for greater alarm response. These boxes are struck on radio command from the Airport to the San Francisco Fire Department Bureau of Communications.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that this is crucial for the company's financial health and for providing transparency to stakeholders.

2. The second part of the document outlines the specific procedures for recording transactions. It details the steps from initial entry to final review, ensuring that all data is captured and verified.

3. The third part of the document addresses the challenges associated with record-keeping. It identifies common pitfalls and offers strategies to avoid them, such as regular audits and clear communication.

4. The fourth part of the document discusses the role of technology in improving record-keeping. It highlights how digital tools can streamline the process and reduce the risk of errors.

5. The fifth part of the document provides a summary of the key points discussed. It reiterates the importance of accurate records and the steps to achieve them.

6. The sixth part of the document offers concluding remarks. It expresses confidence in the team's ability to implement the procedures and maintain high standards of record-keeping.

7. The seventh part of the document includes a list of references. It cites various sources used in the research, including industry standards and academic papers.

8. The eighth part of the document contains a list of appendices. These include additional data, charts, and supporting documents that provide further detail on the topics discussed.

9. The ninth part of the document provides a list of contact information. It includes the names and titles of the authors, as well as their email addresses and phone numbers.

10. The tenth part of the document includes a list of acknowledgments. It thanks the individuals and organizations that provided support and assistance throughout the project.

11. The eleventh part of the document contains a list of footnotes. These provide additional information on specific points mentioned in the main text, such as definitions and sources.

12. The twelfth part of the document includes a list of references. It cites various sources used in the research, including industry standards and academic papers.

13. The thirteenth part of the document contains a list of appendices. These include additional data, charts, and supporting documents that provide further detail on the topics discussed.

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AIRPORT DIVISION

Radio Communications:

All Airport Division Mobile Equipment is equipped with two-way radio. A Manual of Radio Procedure published by the Airport governs the operation of this radio system. Two radio systems are in use at the Airport.

1. 121.8 mg. VHF-FM operated by the FAA in the Control Tower. This is used for the control of all aircraft and vehicular movements on the ramps, taxiways and runways. No inter-vehicle communication is allowed on this frequency.
2. 458.2 mg. and 453.2 mg. UHF-FM controlled and operated by Airport Communications for inter-vehicle and/or office communication. Each fire station at the Airport has a base radio station.

Training:

Training of Airport Division personnel is conducted daily. Saturday and Sunday are reserved for Airport familiarization. All training is under the supervision of the Airport Fire Marshall and conducted by the Training Officer and Company Officers. Training is conducted in accordance with the recommended practices of the NFPA, Aviation Division and the FAA.

Manhours of Training

Direct Training	1871 hours
Related Training	872 hours

Materials Expended in Training

Foram 3%	415 gals.
Foam 6% (Aqueous Film Forming)	100 gals.
Dry Chemical	630 lbs.
Carbon Dioxide	370 lbs.
Fuel	4,560 gals.

Permits

Flammable Storage	1
* L.P.G. Storage	3
Open Flame Welding & Burning	26

- * With the emphasis on ecology today, two airlines, United and American Airlines have gone to the installation of Liquified Gas (mainly Propane) as a fuel for their mechanized ground equipment. These installations present a hazard that are strictly controlled by the latest standards of the N.F.P.A. and San Francisco Fire Code.

Fire Prevention

Number of Inspections	65
Number of Violations	17
Number of Corrections	17

The first part of the report deals with the general situation of the country. It is a very interesting and informative study of the country's development. The second part of the report deals with the specific details of the country's development. It is a very detailed and thorough study of the country's development. The third part of the report deals with the specific details of the country's development. It is a very detailed and thorough study of the country's development.

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AIRPORT DIVISIONEmergency Alarms

Classification of Alarms is as follows:

Alert #1 is a potential accident or an actual emergency, but aircraft is not expected to arrive for five (5) minutes.

Alert #2 is an accident that has occurred or is imminent. Code 10 is a Bomb Threat.

<u>Mo. & Yr.</u>	<u>Alert 1</u>	<u>Alert 2</u>	<u>Fire Alarms</u>	<u>Fuel Spill</u>	<u>First Aid</u>	<u>Code 10</u>	<u>Alarm Total</u>	<u>Total Service</u>
July 71	28	6	9	10	56	4	113	128:35
Aug. 71	30	1	30	7	64	4	136	98:40
Sept. 71	17	3	25	20	54	4	123	102:15
Oct. 71	28	2	36	15	39	5	125	117:50
Nov. 71	26	0	20	17	31	3	97	82:20
Dec. 71	20	1	14	12	54	6	107	78:00
Jan. 72	15	3	23	20	38	7	106	86:45
Feb. 72	16	2	22	14	33	16	103	93:10
Mar. 72	19	2	22	10	53	22	128	110:40
Apr. 72	21	2	8	4	45	18	98	76:30
May 72	13	2	12	6	39	3	75	68:05
June 72	15	3	19	16	59	9	121	97:30
Totals	248	27	240	151	565	101	1332	1141:20

First Aid Response

Mechanical resuscitation	287
Cardiac Compression	106
Miscellaneous First Aid	172
Total	565

Major Fire Incidents

7-30-71 Pan-American 747 struck main landing gear on runway lighting pier on take-off. Aircraft crash landed on Runway 28 Right, second alarm on Box 6913 struck. Assisted in evacuation of aircraft, approximate loss \$6,000,000.00.

9-25-71 United Airlines 727 #3 Engine exploded on landing, pieces of fan cut hydraulic lines, fire controlled by internal extinguishing system approximate loss \$5,000.00.

2-23-72 Cessna crashed at intersection of Runway 28 Right and Taxiway Echo. Extricated pilot from aircraft, no fatalities. Aircraft total loss. Approximate loss \$25,000.00.

SAN FRANCISCO INTERNATIONAL AIRPORT

FIRE DEPARTMENT EMERGENCY EQUIPMENT

UNIT	MOBILE#	SFA#	MFR/YR	PUMP	WATER	FOAM	DRY/CHEM	CO2	TURRETS	HOSE REELS	HOSE	MEAN
RESCUE #1	37	65	International 1964	0	0	0	0	0	100#	0	200' 1/2"	Utility use
RESCUE #2	32	66	Amer Lafrance 1966	1000 GPM	500 GAL	50*	0	0	0	2-200' 50 GPM	1000' 2-3/4" 200' 1 1/2"	1-2
RESCUE #3	35	62	Yankee 1960	750 GPM	1400 GAL	300 GAL*	0	0	500 GPM 300 PSI	2-200' 50 GPM	0	0-2
RESCUE #4	40	67	Yankee Walter 1968	2-1000 GPM	3000 GAL	500 GAL	0	0	1500 GPM 225 PSI	2-200' 65 GPM	0	1-2
RESCUE #5	41	68	Yankee Walter 1969	2-1000 GPM	3000 GAL	500 GAL	0	0	1500 GPM 225 PSI	2-200' 65 GPM	0	0-2
QUAD #1	38	60	Yankee 1959	1000 GPM	750 GAL	110 GAL*	300# 2-100'	0	300 GPM 300 PSI	2-200' 50 GPM	1000' 2-3/4" 500' 1 1/2"	0-2
QUAD #2	34	61	Yankee 1959	1000 GPM	750 GAL	110 GAL*	300# 2-100'	0	300 GPM 300 PSI	2-200' 50 GPM	1000' 2-3/4" 500' 1 1/2"	Relief
AERIAL #1	33	69	Mack 1971	75'	Aerial Platform			1000 GPM Platform				0-2
TANKER #1	36	63	G.M.C.-1954	750 GPM	4000 GAL	0	0	0	0	0	150' 2-3/4"	0-1
COMMAND	31	64	Ford 1968	Fire Marshal Car	- 4-door sedan							

HOSE TRAILER Carries 2000 ft. of 2-3/4" hose ----- FOAM TRAILER Carries 315 gals. of 3% Foam Concentrate

LIGHT UNIT This unit is trailer mounted and carries 5 lamps; 450,000 Lumens.

All equipment with mobile numbers are radio equipped; tower frequency and intervehicle frequency. Aerial #1 carries Resuscitator, Porta-power tools, auxiliary generator, metal cutting power saws & large First Aid Kit. Rescue #2 has 2 Scott Air Paks, Resuscitator, Audio Hailer & is also equipped with S.F.F.D. Radio. The Command vehicle also has J.F.F.D. Radio & is in radio communication with Fire Department Communications Center at all times. All mobile units have the usual small tools, axes and hand extinguishers.

*AFFF

In Memoriam

NAME	RANK	DATE	STATUS
Gerlach, Fred C.	Fireman	7/2/71	Retired
McElearney, James J.	Captain	7/18/71	Active
Fahey, Michael	Fireman	7/20/71	Retired
Deely, John M.	Fireman	8/22/71	Active
Madden, Edward J.	Lieutenant	9/5/71	Retired
Humphrey, Vernon	Fireman	9/6/71	Active
Willmann, Otto H.	Fireman	9/18/71	Retired
Hannon, Thomas	Fireman	9/24/71	Retired
Woods, Laurence	Fireman	9/25/71	Retired
Green, Morris V.	Lieutenant	9/29/71	Retired
Millisich, Bert	Captain	10/8/71	Retired
Hazen, John	Fireman	10/29/71	Retired
Trant, William F.	Fireman	11/17/71	Retired
O'Connor, Timothy M.	Fireman	12/1/71	Retired
Black, William G.	Captain	12/2/71	Retired
Follett, Harvey G.	Captain	12/18/71	Active
Conway, John J.	Lieutenant	12/19/71	Retired
Nelson, Henry J.	Fireman	12/22/71	Retired
O'Shaughnessy, Elmer	Lieutenant	1/18/72	Retired
Kearney, John F.	Battalion Chief	1/21/72	Retired
Hoppe, Elmer W.	Fireman	1/31/72	Active
Lewis, Edward S.	Fireman	2/3/72	Retired
Molloy, Peter W.	Fireman	2/9/72	Retired
Gellenbeck, Ermon R.	Captain	2/12/72	Retired
Higgins, James A.	Fireman	2/17/72	Retired
Reardon, John J.	Battalion Chief	3/14/72	Retired
Groshong, James F.	Fireman	3/18/72	Active
Waterman, Truman S.	Fireman	3/19/72	Retired
Young, George L.	Fireman	4/14/72	Retired
McKenna, Walter J.	Captain	4/15/72	Retired
Dever, Bert H.	Battalion Chief	4/25/72	Retired
Maher, James G.	Fireman	5/2/72	Retired
McMillan, Donald	Lieutenant	5/5/72	Active
Murphy, Fred P.	Fireman	5/16/72	Retired
Saltenberger, Otto H.	Lieutenant	5/20/72	Retired

In Memoriam

NAME	RANK	DATE	STATUS
Cochrane, James M.	Fireman	5/21/72	Retired
McAuliffe, Roger D.	Fireman	5/27/72	Retired
Shea, Edward	Captain	5/28/72	Retired
Fitzpatrick, Joseph A.	Captain	6/20/72	Retired
Cotter, Jack E.	Fireman	6/20/72	Retired
Wuesterfeld, Joseph J.	Fireman	7/6/72	Retired
Reedy, Arthur	Fireman	7/6/72	Retired
Dillon, Lawrence J.	Assistant Chief	7/10/72	Retired
Gardner, Frederick D.	Lieutenant	7/11/72	Retired
Smith, Gerald E.	Fireman	7/11/72	Retired
Rose, Frank J. Jr.	Lieutenant	7/12/72	Retired
Lee, William	Lieutenant	12/28/71	Retired

* On Duty

55
#1
1972-73

SAN FRANCISCO FIRE DEPARTMENT



**ANNUAL REPORT
1972 • 73**

**FIRE
COMMISSION**

**President
RUDY THAM**

**Vice President
MORRIS BERNSTEIN**

**Commissioner
FRANK HUNT**

**CHIEF OF
DEPARTMENT
KEITH P. CALDEN**



Honorable
JOSEPH L. ALIOTO
MAYOR
F I R E C O M M I S S I O N



Honorable
FRANK HUNT
Commissioner

Honorable
MORRIS BERNSTEIN
Vice President

Honorable
RUDY THAM
President



RAYMOND G. CONNORS, JR.
Secretary



KEITH P. CALDEN
CHIEF OF DEPARTMENT



JOSEPH P. DALY
DEPUTY CHIEF OF DEPARTMENT



CLARENCE G. ROSENSTOCK
DEPUTY CHIEF OF DEPARTMENT, RETIRED
IN APPRECIATION OF 40 YEARS
OF DEDICATED SERVICE
FROM
OCTOBER 19, 1932 TO JULY 12, 1972

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**CHIEF OF
DEPARTMENT
KEITH P. CALDEN**



SAN FRANCISCO FIRE DEPARTMENT

OFFICE

DEPUTY CHIEF OF DEPARTMENT

260 GOLDEN GATE AVE.

SAN FRANCISCO CA, 94102



September 4, 1973

Honorable President and
Members of the Fire Commission
San Francisco Fire Department
260 Golden Gate Avenue
San Francisco, California 94102

Gentlemen:

It is with distinct pleasure that I submit herewith the Fiscal Year 1972-73 Annual Report for the San Francisco Fire Department. This is done in accordance with necessary provisions of the City and County of San Francisco Charter Section 3.501.

Basic accomplishments of each Division, Bureau, Committee and program are included. These are viewed by way of a comprehensive summary of the Department's activities shown in narrative and statistical form.

While many fire and rescue operations were conducted under extremely hazardous conditions, our fire fighters extended every effort humanly possible toward the success of their objective, the preservation of life and property. This is indeed a tribute to the personal courage, dedication, and high level of professional skill of all Department members.

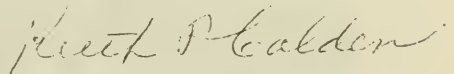
Our fire and other emergency alarms totaled 30,119 during the period reported. This is a slight decrease of 173 alarms less than the previous fiscal year, but it is more than 10% below 1969-70, a time in which occurred the most responses in the history of our department. Coupled with the falloff in deaths attributed to fire, 38 for the Fiscal Year 1972-73 as compared to 45 for 1971-72, the downward trend in loss of life and property may well be attributed to aggressive fire prevention and public education programs.

False alarms amounted to 10,337. This represents a reduction of 1,019 below that of the last fiscal report and is 22.6% less than 1969-70. We believe this decline, linked with a dramatic lessening in harassment incidents, was attained by more effective lines of communication established with community groups by the efforts of the F.L.A.M.E. Program for juveniles, participation in the Mayor's Summer Youth Employment Program, visits to fire stations by supervised groups of children, the School Visitation Program by members of our Department, and a special signal that provides limited response to high-incidence false alarm areas.

A notable event was the joint effort by the Port Commission of San Francisco and the Fire Department to alleviate the growing fire hazard potential of the waterfront area. This was achieved through an in-depth inspection survey by the Bureau of Fire Prevention.

I wish to express my sincere thanks to your Honorable Commission, to the Mayor, to the Board of Supervisors and to other officials for their cooperation and assistance. Appreciation is also extended to public spirited citizens, civic organizations, the press, radio and television for their support and interest.

Respectfully,

A handwritten signature in cursive script, reading "Keith P. Calden". The signature is written in dark ink and is positioned above the printed name and title.

Keith P. Calden
Chief of Department

ADMINISTRATION



ADMINISTRATION

CHIEF STAFF OFFICERS

Specialized Auxiliary Service

SAN FRANCISCO FIRE DEPARTMENT

Headquarters
260 Golden Gate Avenue

Bureau of Administration	Room 225
Andrew C. Casper - Secretary to Chief of Department	
Division of Fire Prevention and Investigation	Room 327
Emmett D. Condon - Assistant Chief of Department	
Division of Planning and Research	Room 210
Rene A. Gautier - Assistant Chief of Department	
Bureau of Assignments	Room 208
Albert R. Latour - Battalion Chief	
Disaster Corps	Room 312
(Fire Reserve) Edmund P. Erlwin - Battalion Chief	
(Emergency Services) Lawrence L. Paris - Battalion Chief	
(Fire Coordinator)	
Bureau of Community Relations	Room 309
Earl J. Gage	

Division of Training	2310 Folsom Street
Charles W. Carli - Assistant Chief of Department	
Bureau of Equipment	909 Tennessee Street
Clayton B. Frazee - Captain	
Bureau of Communications	1003 Turk Street
Peter A. Ruiz - Captain	

NON-UNIFORM

Secretary - Fire Commission	Room 204
Raymond G. Connors	
Physician - Department	Room 307
Joseph P. Lavelle	
Bureau - Engineering & Water Supply	Room 219
Gilbert G. Bendix	

ADMINISTRATION

PERSONNEL

Employments

The total number of authorized employments for the Fire Department totaled 1825 for the fiscal year 1972-1973. This was an increase of one (1) above 1971-1972. The total Fire Department authorized employments for 1972-1973 is detailed as follows:

<u>UNIFORMED FORCE</u>		<u>NON-UNIFORMED FORCE</u> <u>Headquarters Office</u>	
1	Chief of Department	3	Fire Commissioner
1	Deputy Chief of Department	1	Secretary-Fire Commission
1	Secretary to Chief of Department	1	Physician (Part Time)
15	Assistant Chief of Department	1	Principal Accountant
45	Battalion Chief	1	Senior Payroll & Personnel Clerk
85	Captain	2	Payroll & Personnel Clerk
228	Lieutenant	2	Senior Clerk Stenographer
58	Chief's Operator	1	Principal Clerk Stenographer
1287	Firemen	2	Senior Clerk Typist
3	Pilot-Fireboat	3	Clerk Typist
4	Marine Engineer-Fireboat	1	Accountant
2	Captain-Bur.Fire Prevention	1	Clerk Stenographer
3	Lieutenant-Bur.Fire Prevention	<hr/>	
27	Inspector-Bur.Fire Prevention	19	Total - Headquarters Office
1	Lieutenant-Bur.Fire Invest.	 <u>Bur. Engineer & Water Supply</u>	
7	Investigator-Bur.Fire Invest.	1	Supt. Bur. Water Supply
<hr/>		1	Foreman-Bur. Water Supply
1768	Total - Uniform Force - 96.8%	1	Sub-Foreman-Bur. Water Supply
		2	Chief Stationary Engineer
		6	Stationary Engineer
		1	Stationary Engineer (Relief)
		8	Jr. Stationary Engineer
		1	Jr. Stationary Engineer (Relief)
		14	Utility Plumber
		3	General Laborer
		<hr/>	
		38	Total - Bur.Engineer & Water Supply
		<hr/>	
		57	Total - Non- Uniform 3.2%

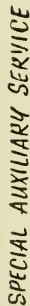
TOTAL EMPLOYMENTS

July 1, 1972

1825

Specific Assignments of these employments are detailed on the authorized personnel assignment chart.

1972-1973



RESCUE COMPANIES 1-2 and 3

	C.D. 140	Lt. 150	ENGR. 155	PLN. M-50	R.C. M-40	CAPT. M-30	Lt. M-20	OPR. M-10	FRMN. M-2	PILOT M-120	M-ENGR. M-110	CAPT. M-32	Lt. M-22	Lt. M-24	INSP. M-4	INV. M-6	TOTALS
CHIEF OF DEPARTMENT	1		1				3		1								6
DEPUTY CHIEF OF DEPARTMENT	1	1					3										4
OFFICE OF EMERGENCY SERVICE					2		1					1					3
PUBLIC ASSEMBLY																	1
WATER FRONT SECURITY													1				1
BUREAU OF ADMINISTRATION						2	1	1		4				1			1
BUREAU OF ASSIGNMENT					1		3										4
BUREAU OF COMMUNICATIONS						1	8		12								21
BUREAU OF EQUIPMENT							1		8								9
DIVISION OF TRAINING				1		1		3	1								6
DIVISION OF FIRE PREV. & INVEST.				1													1
BUREAU OF INVESTIGATION																	1
BUREAU OF FIRE PREVENTION												1		1		7	8
DIVISION OF PLANNING & RESEARCH				1									2		27		30
BUREAU OF ENG. & WATER SUPPLY									7								1
	1	1	1	3	3	5	16	8	32			2	3	1	27	7	110

FIRE FIGHTING SERVICE

DIVISIONS 1, 2, 3, 4		11		11															
DISTRICTS 1 / 10		33		33															
ENGINE COMPANY	1 HT 1	1	2	20															
ENGINE COMPANY	2	1	2	17															
ENGINE COMPANY	3	1	2	17															
ENGINE COMPANY	4	1	2	17															
ENGINE COMPANY	5	1	2	17															
ENGINE COMPANY	6	1	2	17															
ENGINE COMPANY	7	1	2	14															
ENGINE COMPANY	8	1	2	17															
ENGINE COMPANY	10 HT 6	1	2	20															
ENGINE COMPANY	11	1	2	14															
ENGINE COMPANY	12	1	2	14															
ENGINE COMPANY	13	1	2	17															
ENGINE COMPANY	14	1	2	14															
ENGINE COMPANY	15	1	3	17															
ENGINE COMPANY	16	1	2	14															
ENGINE COMPANY	17 HT 4	1	2	20															
ENGINE COMPANY	18	1	2	14															
ENGINE COMPANY	19	1	2	14															
ENGINE COMPANY	20	1	2	14															
ENGINE COMPANY	21	1	2	17															
ENGINE COMPANY	22	1	2	14															
ENGINE COMPANY	23	1	2	14															
ENGINE COMPANY	24	1	2	14															
ENGINE COMPANY	25	1	2	14															
ENGINE COMPANY	26	1	2	14															
ENGINE COMPANY	27	1	2	17															
ENGINE COMPANY	28	1	2	17															
ENGINE COMPANY	29	1	2	17															
ENGINE COMPANY	30	1	2	14															
ENGINE COMPANY	31	1	2	14															
ENGINE COMPANY	32	1	2	14															
ENGINE COMPANY	33	1	2	14															
ENGINE COMPANY	34	1	2	14															
ENGINE COMPANY	35	1	2	17															
ENGINE COMPANY	36	1	2	17															
ENGINE COMPANY	37	1	2	14															
ENGINE COMPANY	38	1	2	14															
ENGINE COMPANY	39	1	2	14															
ENGINE COMPANY	40	1	2	14															
ENGINE COMPANY	41	1	2	17															
ENGINE COMPANY	42	1	2	14															
ENGINE COMPANY	43	1	2	14															
ENGINE COMPANY	44	1	2	14															
ENGINE COMPANY	48	1	3	14															
TRUCK COMPANY	1	1	3	20															
TRUCK COMPANY	2	1	3	20															
TRUCK COMPANY	3	1	3	20															
TRUCK COMPANY	4	1	3	20															
TRUCK COMPANY	5	1	3	20															
TRUCK COMPANY	6	1	3	20															
TRUCK COMPANY	7	1	3	20															
TRUCK COMPANY	8	1	2	20															
TRUCK COMPANY	9	1	3	20															
TRUCK COMPANY	10	1	3	21															
TRUCK COMPANY	11	1	3	17															
TRUCK COMPANY	12	1	3	21															
TRUCK COMPANY	13	1	3	20															
TRUCK COMPANY	14	1	3	17															
TRUCK COMPANY	15	1	3	17															
TRUCK COMPANY	16	1	3	17															
TRUCK COMPANY	17	1	3	17															
TRUCK COMPANY	18	1	3	17															
TRUCK COMPANY	19	1	3	17															
TRUCK COMPANY	20	1	3	17															
FIRE BOAT	1	1	2	14				3		4									
RESCUE SQUAD	1	1	2	14															
RESCUE SQUAD	2	1	2	14															
SERVICE SQUAD	1	1	2	14															
SEARCHLIGHT	2	1	2	14															
WATER TOWER	1	1	2	14															
AIR COMPRESSOR	1	1	2	14															
SALVAGE COMPANY	1	1	2	14															
AIRPORT COMPANIES	1	1	6	45															
RELIEF PERSONNEL	1	1	48	89															
	1	1	15	45	85	228	58	1287	3	4	2	3	1	27	7	1768			

NON-UNIFORMED FORCE

FIRE COMMISSIONERS OFFICE	14 1444	CLM 160	SEC 1440	ACC 1650	SEC 1446	1 1476	1 1474	SEC 1450	14 1270	SEC 1200	PHY 1442	SEC 1400	FIRE STATISTICS				HYDRANT DEPARTMENT			
													7205	7334	7333	7210	7324	7338	7514	
FIRE COMMISSIONERS OFFICE	1	3	1	1	1			1	2	1	1								14	
CHIEF'S OFFICE					1														1	
BUREAU OF FIRE PREVENTION					1	1	1												3	
BUREAU OF ENG. & WATER SUPPLY												1	7	7	9	1	1	14	38	
DIVISION OF TRAINING							1												1	
	1	3	1	1	1	2	2	1	2	1	1	1		7	9	1	1	14	57	

ADMINISTRATION

PERSONNEL

At the beginning of the fiscal year Deputy Chief Clarence G. Rosenstock retired, effective July 12, 1972, after 40 years of outstanding service both as an administrator and as a fire fighter. Assistant Chief Joseph P. Daly of the Division of Administration was named as his successor by Chief of Department Keith P. Calden.

Deputy Chief Daly received his appointment from Chief Calden on July 10, 1972. At this ceremony, for the first time in the history of the Fire Department, the retiring Deputy Chief pinned his badge on the man succeeding him.

A re-classification of administrative positions became effective July 5, 1972 with the appointment, by the Chief of Department, of Battalion Chief Andrew C. Casper as Secretary to the Chief. The Division of Administration was then changed to the Bureau of Administration under the charge of the Secretary to the Chief of Department.

The Division of Airports came into being effective July 1, 1972. The new position of Assistant Chief at San Francisco International Airport was granted in the 1972-1973 Budget. Ranking command over the ensuing hazards of increased airport facilities coupled with increased complexity of operations will be provided by this position. Prior command was the responsibility of a Captain who also acted as Airport Fire Marshal.

Assistant Chief Robert E. Clancy was designated by the Chief of Department to be the first Division Chief of Airports.

For the fiscal year, ending June 30, 1973, there existed 136 vacancies in the rank of H2 Fireman. These were caused by Federal Court litigation that began shortly after the written entrance examination was held in September of 1971. When the court suit is resolved, and the Civil Service Commission establishes an entrance list, the vacancies will be filled.

ADMINISTRATION

MERITORIOUS COMMENDATIONS

On December 26, 1972, the Fire Commission accepted the recommendations of the Fire Department Merit Advisory Board concerning Meritorious Awards to the following Department members:

Class "A" Awards

Lieutenant Sylvester J. Cotter
Fireman David P. Brown

Class "B" Awards

Battalion Chief Lee Cavellini	Fireman Gerald F. Doherty
Battalion Chief Andrew C. Casper	Fireman Thomas P. Ryan
Lieutenant Thomas C. Buckle	Fireman Kenneth F. Brodie
Fireman Peter J. Ackenheil	Fireman Robert A. Moore
Fireman Gary D. Tishma	Fireman John T. Conway
Fireman Gerald J. Kilroy	

Class "C" Awards

Fireman Wayne L. Lile
Fireman William Jovick
Fireman George C. Langley

Class "D" Awards

Captain Edward M. O'Donnell	Fireman Richard E. Condon
Lieutenant Jerry O'Leary	Fireman William E. Miles
Lieutenant Alfred E. Smyth	Fireman David J. Lavelle
Lieutenant Jerome L. Green	Fireman Kenneth A. Ahrens
Fireman George Langley	Fireman Allen J. Reinstadler
Fireman Gerald F. Overstreet	Fireman John Q. Murphy
Fireman John L. Rogers	Fireman Robert T. Gregg
Fireman Emmett W. Roebing	Fireman Gordon L. Heiner
Fireman Thomas H. Stern	Fireman Philip R. Savin

Letters of Commendation

Lieutenant John E. Voelker
Lieutenant Charles R. Grimm
Inspector Ray Johnson
Fireman Frank Scales, Jr.
Fireman Jerry D. Mifsud

ADMINISTRATION

Unit Citations

Engine Company #13
Engine Company #43
Truck Company #11
Engine Company #38
Engine Company #3
Engine Company #17

Rescue Company #1
Truck Company #4
Rescue Company #2
Engine Company #10
Truck Company #1
Truck Company #3

Salvage Company #1
Battalion District 1
Division 1
Photo Unit 1
Hi-Ex Foam Unit
Bureau of Equipment

Posthumous Awards

Fireman George F. Hicks
Fireman John A. Parina

Meritorious Award Justification:

- Class "A" - A voluntary action in relation to the saving of human life under the most adverse conditions and at extreme personal risk.
- Class "B" - A voluntary action in relation to the saving of human life under dangerous conditions and at great personal risk.
- Class "C" - An action of exceptional character and associated with unusual ability, personal initiative and courage.
- Class "D" - Assistant or Battalion Chief's commendation for recognition of Company, group or individual performance beyond that normally expected at an emergency situation.

Individual or individuals who have been a credit to the Department in their activities on behalf of community affairs.

A lesser award than stipulated above may be awarded to a Company, group or individual, and this award shall be in the form of a letter of commendation.

CLASS "A" AWARD



FIREMAN
DAVID P. BROWN



LIEUTENANT
SYLVESTER J. COTTER

MERITORIOUS COMMENDATIONS

CLASS "B" AWARD



FIREMAN
PETER J. ACKENHEIL



FIREMAN
KENNETH F. BRODIE



LIEUTENANT
THOMAS C. BUCKLE



BATTALION CHIEF
ANDREW C. CASPER

CLASS "B" AWARD



BATTALION CHIEF
LEE J. CAVELLINI



FIREMAN
JOHN T. CONWAY



FIREMAN
GERALD F. DOHERTY



FIREMAN
GERALD J. KILROY

MERITORIOUS COMMENDATIONS

CLASS "B" AWARD



FIREMAN
ROBERT A. MOORE



FIREMAN
THOMAS P. RYAN



FIREMAN
GARY D. TISHMA

ADMINISTRATION

FISCAL

Budget - Personnel Services

Under provisions of Section 8.405, City Charter, the salaries of the uniformed force of the Department are authorized by the Board of Supervisors. The salary range is based upon survey and certification by the Civil Service Commission of the highest salary paid firemen and police officers in California cities of 100,000 or more population.

The required Charter Survey of August 1972, reported an increment of 7/10 of one (1) per cent for San Francisco firemen as compared to the 1971-72 salary range. This salary was approved by the Board of Supervisors, effective July 1, 1972. Salaries for employees, other than those of the uniformed force, are covered by other Charter sections.

Personnel

1972-73 - Budget Estimate	28,611,425
1972-73 - Budget Expended *	28,164,820

(*) Like Work - Like Pay (Differential Pay-Uniformed Force)

Effective July 1, 1967, it was required by City Ordinance to compensate members of the Fire Department who are required to be temporarily assigned to the next higher rank than that in which they are permanently assigned for more than one 24-hour shift. This occurs when necessary to assign a member to a higher rank due to there being no permanent relief member of the higher rank available for said assignment. This requirement incurred an expenditure of \$15,512.00 for the Fiscal Year 1967-68. In Fiscal Year 1968-69, this requirement required an expenditure of \$33,482.00, of which \$15,000.00 was authorized in budget estimate, \$15,000.00 by supplemental appropriation and \$3,482.00 by use of department surplus funds. The authorized budget estimate in this category for 1969-70 was \$30,000.00. It was necessary to increase this estimate by supplemental appropriation in the amount of \$45,000.00 and by funds from the Department Permanent Salary surplus in the amount of \$12,473.00, a total expenditure of \$87,473.00. The authorized budget allowance for 1970-71 was \$45,000.00. The total expenditures amounted to \$38,291.00, resulting in a surplus of \$6,709.00. The reason for the lower amount was due to legislation passed in August, 1970, whereby permanent appointments are made to officers vacancies as soon as they occur. The 1971-72 budget allowance was \$52,000.00. Expenditure for that year showed \$38,698.00. The expenditure for 1972-73 budget was \$49,528.00; \$9,528.00 of these funds were provided by supplemental appropriation and transfer.



FIRE DEPARTMENT
BUDGET

\$40,638,491.00

FIRE DEPARTMENT
PERCENTAGE OF
TOTAL CITY BUDGET

6.2%

ADMINISTRATION

Budget - Operating

This budget category represents the 1972-73 fiscal year's operating expense of the Fire Department:

Budget Allowance \$924,946

Budget - Expended \$924,037

<u>Item</u>	<u>Allowance</u>	<u>Expended</u>
Contractual Services	\$706,515	\$702,931
Local Fares - Airport	500	785
Materials & Supplies	215,025	217,364
Fixed Charges	181	206
Meritorious Awards	2,725	2,751

Budget - Equipment

Budget Allowance \$381,468

Budget - Expended \$371,471

Budget Recapitulation and Difference

<u>Category</u>	<u>Allowance</u>	<u>Expended</u>	<u>Difference over/(under)</u>
Personnel Services	\$28,719,420	\$28,166,056	(553,364)
Contractual Services	706,515	702,931	(3,584)
Local Fares - Airport	500	785	285
Materials & Supplies	215,025	217,364	2,339
Equipment	381,468	371,471	(9,997)
Fixed Charges	181	206	25
Meritorious Awards	2,725	2,751	26
Fringe Benefits	10,612,657	10,612,657	- -
Total	\$40,638,491	\$40,074,221	(564,270)

Department Receipts:

Recorded Department Revenues for the Fiscal Year 1972-73 are reported as follows:

Permit Fees	---	\$ 5,000
Sale of Electricity (Pumping Sta. #2 to Ft. Mason)	---	34,000
Damage Recovery & Other Revenues	---	7,000
Photo Copy Service Charges	---	2,500
Salvage Cover Rental	---	3,100
Total		\$ 51,600

ADMINISTRATION

BUREAU OF ASSIGNMENTS AND COMMUNICATIONS

BUREAU OF ASSIGNMENTS

The authority for constantly maintaining adequate personnel to insure the most efficient operation of Department apparatus and equipment is delegated to the Battalion Chief and officers assigned to this Bureau by the Chief of Department. To accomplish this objective requires a system of planning and procedures to which this Bureau adheres.

The following is a brief outline of some of the more exacting operations performed:

1. Compilation of Division Strength Reports
2. Estimation of manpower availability on a three (3) day forecast
3. Working out-of-classification assignments
4. Daily membership reports
5. Allocation of vacation periods

BUREAU OF COMMUNICATIONS

In July, 1971, the Bureau of Communications was established as a sub-bureau of the Bureau of Assignments and Communications. A captain is assigned to the Bureau under the functional supervision of the Battalion Chief, Bureau of Assignments and Communications.

The functions of the Bureau of Communications are divided into three (3) operations:

Dispatch Center - Dispatch Officers - Two lieutenants on duty per shift.

Their primary functions are to receive and evaluate alarms and other emergency calls and for dispatching of men and proper type of apparatus and equipment to necessary emergencies.

Communication Center - Radio Operators

Three Radio Operators per shift, under direction of the Dispatch Officers, perform all radio communications with the firefighting services in the field and with other necessary emergency services. A mobile communications unit, manned by radio personnel respond from this center to greater alarms, to serve as a field command post.

During fiscal year 1972-73 Communication Unit #1 responded to 94 greater alarms for 143 hours and 35 minutes of fire service.



COMMUNICATION CENTER



COMMUNICATION UNIT #1

ADMINISTRATION

BUREAU OF COMMUNICATIONS

Information Center

This center maintains vital and necessary current information on: locations of special keys, Maps, Records, Special Tools and Equipment for use in field operation in conjunction with a library on hazardous materials and dangerous chemicals encountered in the firefighting operations.

SUMMARY

The Bureaus of Assignments and Communications are required to expedite all Department matters channeled to them by proper authority. Dissemination of information, with strict adherence to Department policy, places these Bureaus in the midst of administrative authority and general field operations. The Bureaus of Assignments and Communications are motivated not only by intrabureau goals, but also by the total Department objectives necessary for high standards of performance.

BUREAU OF EQUIPMENT

The Bureau of Equipment is staffed with one officer and ten firemen, and is responsible for maintenance, lubrication, inspection of all apparatus. The Bureau is also responsible for procedures pertaining to the care and operation of all apparatus and equipment in the Fire Department.

During the fiscal year 1972-1973, the Bureau received more than 15,000 requests for equipment repairs, oxygen, supplies, extinguisher exchanges and other services. Approximately 75% of these required additional calls to other city departments for verification and processing.

Aside from maintaining records on all apparatus and hose, the Bureau compiles and reports on all apparatus in and out of the Central Shops, annual pump tests, hose complement and apparatus status.

The Bureau participates in high pressure tests; assists the Division of Training and Division of Planning and Research on special projects; evaluates suggestions submitted by the Advisory Board; attends Oral Boards and pump operator evaluation tests for neighboring communities.

During week-ends and hours when the Central Shops are closed, the members of the Bureau handle emergency repairs to apparatus and equipment.

The Bureau responds to all greater alarms and accidents involving our apparatus, and provides emergency tow service for other city departments when requested.

ADMINISTRATIONApparatus Status

As of June 30, 1973, the following equipment was in service and in reserve in the San Francisco Fire Department:

	<u>In Service</u>	<u>In Reserve</u>
1,000 GPM Combination Engine and Hose Wagon-----	0	14
1,000 GPM Combination Pumpers, Triple-----	22	6
1,000 GPM Triple combination pumpers,(Diesel)-----	2	0
1,000 GPM Triple combination pumpers, (C.D.)-----	0	1
1,250 GPM Triple combination pumpers-----	12	0
1,250 GPM Triple combination pumpers,(Diesel)-----	5	0
1,500 GPM Triple combination pumpers,(Diesel)-----	3	0
Aerial Ladders - 100 foot----(Diesel)-----	5	0
Aerial Ladders - 100 foot-----	12	0
Aerial Ladders - 92 foot----(Diesel)-----	1	0
Aerial Ladders - 85 foot-----	2	0
Air Compressor-----	1	0
Automobiles - Chiefs'-----	15	6
Automobiles - Staff-----	32	0
Mini Buses-----	3	0
City Service Trailer-----	0	6
Coffee Unit-----	0	1
Fire Boat-----	1	0
Foam Unit-----	0	1
Diesel Fuel Unit-----	0	1
Gasoline Fuel Unit-----	0	1
Hi-Expansion Foam Units-----	0	3
Hose Tenders-----	3	3
Hydrant Trucks-----	8	0
Hydrant Trucks, (Valve Units)-----	14	0
Pipe Dolly,- (C.D.)-----	0	1
Pipe Trailer Unit, -(C.D.)-----	0	1
Portable Compressor, 2 Wheel Trailer Unit-----	1	0
Rescue Trucks-----	2	1
Salvage Trucks-----	1	3
Utility Unit-----	0	1
Sand Truck-----	0	1
Searchlight Engines-----	1	0
Service Squads-----	2	0
Tow Truck-----	1	0
Tractors, Aerial-----	13	1
Tractors, Aerial - (Diesel)-----	7	1
Tractors, City Service-----	0	8
Trucks - Auxiliary -500 GPM-----	0	17
Trucks - Delivery-----	5	0
Trailers, Auxiliary - 500 GPM-----	0	3
Valve Unit-----	1	0
Water Tower, Large-----	1	0
Water Tower, Small-----	0	2
Water Rescue Unit-----	0	1

ADMINISTRATION

Hose Complement

Contained in the following chart is the hose complement of the department, excluding short utility lengths, soft suction, hydrant jumper lengths, circulators, multi-versal and house lengths. The maintaining of this record is the responsibility of the Bureau of Equipment.

S.F.F.D. Hose Complement - June 30, 1973

<u>Age</u>	<u>2-3/4"</u>	<u>1 1/2"</u>	<u>1"</u>
10 yrs. or less	74%	98.2%	57.7%
11 yrs. to 15 yrs.	25%	1.8%	36.3%
Over 15 yrs.	1%	0 %	6 %
	-----	-----	-----
Total	100%	100 %	100 %
Total Footage	165,700 Ft.	75,300 Ft.	25,750 Ft.
Total Footage in Hose Complement			
266,750 Ft.			

OFFICE OF EMERGENCY SERVICES

Fire Department personnel assigned to this office consists of two Battalion Chiefs and one Lieutenant. One Battalion Chief, assisted by the Lieutenant, serves as Fire Coordinator. The second Battalion Chief is in charge of the Fire Reserve. His duties include training the Reserve and directing them when working at greater alarms.

Emergency Services Fire Coordinator (Battalion Chief assisted by Lieutenant)

His primary duties are to develop within business firms, industrial plants and other directed premises, programs for organizing and training management and other responsible occupants to cope with war caused and natural disasters.

He serves a dual purpose in on-the-spot training of shelter managers, radiological monitors and fire fighting forces available within designated buildings within the City of San Francisco.

Another facet, with the National Fallout Survey and Marking Program, is the inspection and approval of licensed fallout shelters before such shelters are stocked and marked and obtaining licenses for buildings not previously licensed.

ADMINISTRATION

Emergency Services Fire Coordinator (Cont.)

The following is a breakdown of the principal services performed by Fire Department Coordinators with the Emergency Services during the fiscal year 1972-73.

1. Shelter Visits	272
2. Number of individuals contacted on shelter visits	605
3. Talks and demonstrations in safety, fire and earthquakes and the use of fire extinguishers	47
4. Number of people trained under item #3	2,061
5. Examined and replaced Radeff Kits	11
6. Inspected shelters for stocking	32
7. Relocation and removal of shelter supplies	18
8. Meetings	56
9. Showing of films on Fire Extinguishers and Earthquakes	37
10. Removal of Phenol-Barbital and unusable medical supplies, locations	66
11. Delivered to San Francisco General Hospital Phenol-Barbital	1,121 bottles
12. Special assignments	12
13. Inventoried shelters	191
14. Arranged for movement a total of 387,000 lbs. of high protein crackers for Nicaraguan Earthquake Relief	
15. Prepared literature for talks on fire and safety, earthquakes	

Fire Reserve

The Fire Reserve is a unit of the San Francisco Emergency Services organized to augment the San Francisco Fire Department in times of a natural disaster or hostile military action. It is supervised by a Battalion Chief of the Fire Department.

The members of the Fire Reserve are a group of dedicated citizens whose services are volunteered to the City and County of San Francisco without remuneration.

ADMINISTRATION

Fire Reserve (Cont.)

These men are a group of specially trained citizens. Training exercises are held weekly throughout the year. The Reserve also receives on the job training by observing and assisting the San Francisco Fire Department at multiple alarm fires.

In the event of hostile military action, or of a natural disaster of long duration, the Fire Reserve will be greatly expanded to assist in the safeguarding of the lives and property of all our citizens. The present membership will be the nucleus of any required expansion of this organization.

Membership of the Fire Reserve - June 30, 1973 - 56		<u>Greater Alarms responded to</u>	
<u>Activities</u>			
Training exercises	49	Total	20
Total attendance	1,368	Total Attendance	210
Man hours-Training	2,758	Man hours of work	635
Pumpers used-Training	89		

Public Information Officer

The activities of the Public Information Officer during the 1972-73 fiscal year involved the following:

1. Maintained as a primary function fire department liaison with the various segments of the news media in the San Francisco Bay Area.
2. Post-fire interviews are now conducted by the Public Information Officer at occupancies where serious fires have occurred. The objective of this newly inaugurated program is to clearly define the fire fighting operations with the property owner and to assist him whenever possible.
3. Participated in various evaluations of department programs and assisted in the development of departmental changes in the Rules and Regulations.
4. Conducted public relations activities relating to visiting dignitaries and other public officials. Oriented various groups of persons in governmental capacities and educational functions.
5. Corresponded with various fire departments seeking information about department operations, procedures and experiences. Included in this type of correspondence were replies to many citizens seeking employment in the San Francisco Fire Department.

Public Information Officer (Cont.)

6. Represented the department at various meetings of local governmental commissions and committees.

San Francisco Fire Department
Pioneer Memorial Museum

The San Francisco Fire Department Pioneer Memorial Museum was officially dedicated on October 5, 1964. It is located adjacent to the quarters of Engine Company #26 and Truck Company #10 at 655 Presidio Avenue and is open to the public daily from 1300 to 1700 hours.

Citizens of San Francisco and the Bay Area, retired department members and relatives have contributed many items. Also helpful have been various historical societies including the fire department's own Saint Francis Hook and Ladder Company #1.

During the period from July 1, 1972 to June 30, 1973, 4,735 guests visited the museum.

Groups that have visited the museum during the year included: Boy Scouts, Girl Scouts, Jewish Community Center, Recreation Centers, representatives from companies and corporations, senior citizens, California Historical Society, guests from other states and foreign countries and school children have made regular visits in connection with their studies.

Photo Unit No. 1

Photography in our modern day department is being utilized more than at any other time in history. Fire prevention, fire investigation, training, public relations and administration activities rely upon the effective photo unit services. The San Francisco Fire Department has the privilege of retaining the services of a nationally recognized photographer, Inspector Chester D. Born, who heads the photo unit. Our city provides an extraordinary opportunity for obtaining valuable fire ground photography of situations encountered by a large metropolitan fire department. As a result, training activities have vastly improved in recent years, with corresponding improvements in all segments of our department. In addition, because of the expertise of Photo Unit No. 1, all major fire service publications in the nation, San Francisco Bay Area newspapers and many other local publications have published a wide variety of the city's unusual and interesting fire ground emergency situations.

ADMINISTRATION

Photo Unit No. 1 (Cont.)

Fire Prevention lectures and displays provided for many local organizations and service groups have greatly improved due to increased audience interest and participation. Expressed more succinctly, "one picture is worth a thousand words" in this area of public education.

Alarms responded to:	Pier Fires	6
	Still Alarms	180
	First Alarms	225
	Second Alarms	96
	Third Alarms	28
	Fourth Alarms	7
	Fifth Alarms	2
		<hr/>
	Total	536
	Rescue operations	148
	Arson Cases	81
	Airport responses	1
	Fire department accidents	17

Photos taken by the San Francisco Fire Department Photo Unit appeared in local papers, television stations and national publications. Color and black and white photos will be used in the upcoming book on the San Francisco Fire Department. Forty-eight (48) fire slide and fire prevention lectures were given to local service clubs and organizations throughout the bay area. Three hundred and forty (340) special requests for San Francisco Fire Department photos were filled and photography from this unit was used by the Mayor's office and other city administrative organizations. The photo unit traveled 9,880 miles in the fiscal year.

COMMUNITY RELATIONS BUREAU

The primary purpose of the Community Relations Bureau is that of developing additional avenues of communications to substantially increase understanding and awareness of each to the other and most importantly the establishment of trust, faith and goodwill between the community and the fire department. During the fiscal year, the bureau engaged in the following activities to bring its objectives nearer to reality:

ADMINISTRATION

Examination (H-2 Fireman)

Considering the aftermath of court decisions and the concerns of the fire department, coaching schools for the written and physical agility examinations were continued. The physical agility examination and coaching schools were particularly successful considering the absence of court challenge.

Youth Employment and Exposure

Employment in Public service - the San Francisco Fire Department in cooperation with the Unified Public School District engaged in a program to encourage high school seniors to seek employment in public service areas by increasing their awareness of how the community functions and serves the citizens. The fire department's endeavors were that of exposing young adults to various aspects of the department in an effort to accomplish this purpose and thereby hopefully create an interest in those young adults that would lead to careers in the fire service.

Mayor's Office Summer Youth Employment

The Mayor's office summer youth employment program is designed to allow youths between the ages of 14 years and 21 years of age to engage in gainful employment. The fire department recognized that in employing some of these young adults and exposing them to the departments practices and procedures we could conceivably create a resevoir of fire fighter aspirants.

School Visitations

Visits were made to schools in areas where the fire department was plagued with false alarms to explain the perils of such actions. Fire apparatus manned by department personnel on the school yards, produced the visible affects necessary to satisfy many of the curiosities that may have otherwise been cause to pull a false alarm.

Special Events

Arranged a Christmas dinner for the handicapped. A very excellent dinner of turkey with all the trimmings was prepared and served by the members of Engine Company #37 and Truck Company #9.

Human Relations Fair at Mc Ateer high school. The fire department program included demonstrations by Inspector John Mitchell with "Resusa-Ann" and outstanding fire pictures by Department Photographer, Chet Born.

Bernal Heights Park Dedication. Truck Company #7 received great praise for their participation and apparatus demonstrations.

Meetings

Regularly attended community organization meeting. When requested, attended meetings of the Civil Service Commission and other governmental agencies.

ADMINISTRATION

FIRE LEAGUE ATHLETIC AND MUSICAL EVENTS (F.L.A.M.E.)

During fiscal year 1972-1973, this organization was sponsored by the San Francisco Fire Department and its members as a means of keeping children between the ages of 8 through 16 years of age involved in various sports, such as, baseball, basketball, softball and soccer. It was also involved in the Western Special Olympics for handicapped children.

During this, the fourth year of F.L.A.M.E., 1,600 boys participated for a total of 4,600 since the program started in July 1969. F.L.A.M.E. expresses its thanks to the members of the San Francisco Fire Department who have supported the program and particularly to the members who have served as coaches or instructors.

The various sports activities sponsored by F.L.A.M.E. during the fiscal year 1972-1973.

Baseball:	Bronco - Pony League
Basketball:	O.M.I. Basketball League
Invitation Tournament	- (Double Elimination)
Softball:	Ages 9 through 13
Soccer:	San Francisco F.L.A.M.E. Junior Soccer League
Meritorious Awards	- There were ten (10) Awards given.

During fiscal year 1972-1973, the operation of F.L.A.M.E. was financed from funds contributed by over 1,250 fire fighters, also through Time-Tel Marketing of Life and Time Magazines as well as friends of F.L.A.M.E.. The Mayor's Youth Bowl Committee which derives money from a football game by the San Francisco 49ers and an opponent during the pre-season schedule made a sizeable contribution which will be received annually. A total of approximately \$19,052.56 was received through contributions and memberships during the fiscal year.

COMMITTEE REPORTS

Fire Department Advisory Board

The San Francisco Fire Department Advisory Board, now in its 17th year of existence, continues to convey valuable suggestions from members in the field, to the Chief of Department. The department has utilized the Board to help prevent stagnation by documenting and thoroughly researching each item received. During the past fiscal year, this 13 member Board has reviewed a total of 52 suggestions. Of these: 22 were accepted; 2 were rejected, 9 are still pending decision; 15 were tabled and 4 are being researched by the Board.

Fire Department Advisory Board (Cont.)

All suggestions originate from dedicated members, whose only desire is to improve department efficiency. Their ingenuity has done much toward maintaining the department's standard of excellence.

Educational Committee - Fire Science Technology

It is seven years since City College of San Francisco entered into an agreement with the San Francisco Fire Department and the Vocational Division of the California State Department of Education which created the Fire Science Technology Division at the City College of San Francisco campus. Since inception, 3,657 have attended classes.

Over a period of years, all concerned had dreamed of a unified successful educational program and many other fire departments had ventured into the field with varying degrees of success. San Francisco held back in order to research the overall results and to gain from the experiences of those who started earlier. This proved to be a wise decision in that great knowledge was gained from the experiences encountered by others in the field.

The program now offers an Associate in Science (A.S.) degree rather than the Associate in Arts (A.A.) degree, as the former is found to be more in keeping with the fire profession. In addition, all of those graduating in this major with a "C" or a 2.00 average or better receive the Certificate of Proficiency which further establishes their ability to perform well in Fire Science Technology.

The Fire Science Advisory Board met at City College in mid-June of 1971, and their support of the program continues to be excellent. A new building is being planned, which will give the Criminology and the Fire Science Technology new sections and expanding facilities.

Fire Science Technology Courses Available

<u>COURSE NUMBER</u>	<u>TITLE OF COURSE</u>	<u>UNITS</u>	<u>TIME OF PRESENTATION</u>
50	Introduction to Fire Protection	3	each semester
51	Introduction to Fire Protection	3	each semester
52	Apparatus and Equipment	3	Spring only
54	Basic Fire Mathematics	3	each semester
60	Fire Apparatus and Equipment	3	Fall only
61	Fundamentals of Fire Prevention	3	Spring only
62	Rescue Practices	3	Fall only
63	Related Codes and Ordinance	3	Spring only
64a	Hazardous Materials (with 3 hours Lab. Lecture)	4	Fall only

ADMINISTRATION

<u>COURSE NUMBER</u>	<u>TITLE OF COURSE</u>	<u>UNITS</u>	<u>TIME OF PRESENTATION</u>
64b	Hazardous Materials (with 3 hours Lab. Lecture)	4	Spring only
65	Fire Hydraulics	3	each semester
66	Building Construction for Fire Protection	3	Fall only
75	Report Writing	3	as directed

Evening Division

G-12	Practical Speech	3	Tuesday- Thursday
61	High Rise for Fire Protection Bureau	3	Thursday
61B	High Rise for Regular Firemen	3	Monday- Wednesday

Safety Committee

The Safety Committee has been reorganized and now consists of the Chief of the Division of Training who serves as Chairman, a secretary and ten captains as staff members

Staff members were selected so that in each firefighting division, with minor exceptions, there will always be a member on duty. This facilitates immediate response of a Safety Committee member to injuries and unsafe conditions when his presence is requested.

Procedures have been requested whereby Department officers can have the services of a Safety Committee member by requesting him through the Bureau of Communications. As was noted, committee members are available twenty-four (24) hours a day, seven days a week.

The Safety Committee believes it can give better service to the Fire Department by having incidents investigated immediately after occurrence.

DISABILITY

<u>July, 1972</u>		<u>to</u>	<u>July, 1973</u>	
July, 1972	85	January, 1973	70	
August	60	February	64	
September	42	March	87	
October	35	April	81	
November	46	May	75	
December	35	June	76	- Total 756

Safety Committee (Cont.)

There were approximately 25 to 30 additional cases which are not considered "Industrial" according to the definition of the "American Standards Method of Recording Work Injuries" and so were not counted by the San Francisco Chapter of the National Safety Council even though, under California Workmen's Compensation laws or Retirement Board policy, they qualified for benefits.

Vehicular Accident Committee

The main purpose of the Vehicular Accident Committee is to make a statistical study of vehicular accidents and their causes, and to make recommendations for their prevention. In addition, the committee will determine the estimated costs to the fire department of these accidents, and the amount of time department vehicles are out of service due to accidents.

For the fiscal year 1972-1973 there have been 134 accidents of which 63% were deemed preventable.

Although the accident rate fluctuates somewhat from year to year, there is no predictable coefficient of correlation between the number of alarms and the total number of preventable vehicular accidents.

An analysis of the accidents during the fiscal year 1972-73 again reveals that the cause of greatest concern from the safety standpoint are accidents which occur while proceeding through intersections, stop and go signals and arterial controlled intersections when department vehicles are responding to emergencies.

It is hoped that the possible implementation of a new training course during the 1973-74 fiscal year will result in a considerable drop in the number of preventable accidents. To be effective this program must have the full support of not only our drivers, but also of all officers in charge of San Francisco Fire Department vehicles. This driver training program will be initiated when the problem of time and scheduling is coordinated between the Bureau of Equipment and the Division of Training. This entire project is still in a state of innovative flux and is being revised as necessary when the needs of the department indicate that such changes will increase the efficiency of the program.

Radio Committee

Due to the major portion of the request for funds by the Radio Committee being deleted from the 1972-73 budget, only a limited amount of radio equipment was purchased during the fiscal year.

It was necessary to replace the mobile base station radio equipment on the Fireboat Phoenix because of new Federal Communication Commission (FCC) rules and requirements of the U.S. Coast Guard. In addition, two portable radios were purchased to comply with the Vessel "bridge-to-bridge" communication requirements.

ADMINISTRATION

Radio Committee (Cont.)

A replacement program was initiated for the batteries of the portable radios in use by our department with the purchase of forty-four (44) new batteries.

Two (2) additional Motorola radio receivers (pagers) were purchased for use by personnel in the selective calling paging system which is used for administrative purposes.

The Radio Committee also attended meetings with the Command and Control Committee which is planning the new dispatching system (SAFER). Liaison was also maintained by the Radio Committee with the Radio Division of the Department of Electricity in regards to the maintenance and repair of radio equipment of the fire department.

High-Rise Program Committee

This inspection program was formulated and started in early 1972. It calls for inspections of all High-Rise buildings and target hazards by Battalion Chiefs in their respective districts.

These inspections in most cases are followed by a conference with the building management. Plans are developed during these conferences so that building management and occupants will become aware of the actions they should take and their responsibilities during emergencies.

Most of the High-Rise buildings are located in the downtown area or high value district. Target hazards can be found in any area of the city.

A brief listing by Divisions will show what has been done during the last fiscal year.

	<u>High-Rise Inspections</u>	<u>High-Rise Conferences</u>	<u>Target Hazards</u>
Division #1	62	39	5
Division #2	39	19	48
Division #3	17	14	43
	<u> </u>	<u> </u>	<u> </u>
Total	118	72	96

St. Francis Hook and Ladder Committee

Early in 1973 a group of San Francisco Firefighters decided that the time had come to organize a society for the purpose of restoring and preserving some of the priceless historical artifacts and apparatus of the San Francisco Fire Department. The group sought to give the organization a name which would mark it as distinctly San Franciscan, and still commemorate our old San Francisco Volunteer Firemen. They chose the name "St. Francis Hook and Ladder Company No. 1", which had been first named after the patron saint of our city by an early company of volunteer firemen in 1850.

St. Francis Hook and Ladder Committee (Cont.)

The modern St. Francis Hook and Ladder Company is patterned after their gold rush counterparts even to wearing authentic uniforms of the 1850s consisting of bright red brass buttoned shirts and the high peaked leather helmets of the period. The company prides itself in the excellence of its ladder evolutions, including the hand raising of a wooden 65 foot Bangor extension ladder weighing a quarter of a ton. Hand raising this heavy ladder is no mean feat in a day and age when almost every large ladder is put up with power assist. St. Francis Hook and Ladder also provides authentic historical color at parades and civic functions within the city, as well as, being a representative of San Francisco at various Old Time Firemen's Musters and competitions throughout the state. The company participates in hand pumper contests, hose-cart races, motorized hose lead competitions and the like with a verve and elan that would have cheered the hearts of the old volunteers. All of this energy and dash is something to behold, and the fact that all men attend in an off-duty status is a tribute to the spirit and dedication of these men.

The prime purpose of the organization remains, however, its intention to preserve for the citizens of San Francisco some of the tangible color of the past. Old memorabilia, if not cherished, have a way of disappearing forever and apparatus not looked after with concern soon finds its way irrevocably to the scrap heap never to be seen again except in an occasional old photo. It is the intention of St. Francis Hook and Ladder Company No. 1 that our interesting and unique pieces will be restored and preserved for posterity in the San Francisco Fire Department Pioneer Memorial Museum.

Toy Detail Committee

The San Francisco Fire Department Toy Detail is a volunteer program to repair and distribute toys to needy families in the City of San Francisco.

This program is under the direction of Chief of Department Keith Calden and sponsored by Firefighters Union Local 798.

At the beginning of the program, twenty-three years ago, thirty families were provided with toys. This year over ten thousand five hundred children and their parents had a brighter holiday season through this distribution.

This program is unique in the fact that it has been a success for twenty-three consecutive years. It is, no doubt, the largest operation of its kind.

ADMINISTRATION

Physical Fitness Program Committee

A physical fitness and weight control program was implemented on June 30, 1971.

During the fiscal year 1972-1973, all members of the fire department were checked for height and weight by the department physician.

An exercise program consisting of two parts - (1) Warm up - (2) Conditioning (developmental) exercises has become part of a regular daily routine in the Fire stations. Each of the two parts is divided into three levels of achievement, I, II and III. Each level has a minimum and maximum number of repetitions. The fire department now is at level III.

In conjunction with this program, a year round supervised inter-department sports program involving softball, basketball, touch football, volleyball and tennis supplements the fitness program.

On April 23, 1973, a voluntary program was offered in the Martial Arts (Karate, Kempo, etc.) by qualified members in the department.

Firemen's Olympics Committee

The first California Firemen's Summer Olympics were hosted by the San Francisco Fire Department, August 31 through September 2, 1972. Approximately five hundred fire fighters from various cities and counties in the state participated in sixteen sports events. San Francisco finished first in total medals.

This year during June 20 to June 23, more than nine hundred and forty competed in Los Angeles. San Francisco took third place in total medals with Los Angeles County in first place and Los Angeles City in second place. However, the cycling and softball state championships were won by San Francisco teams.

Due to the increase in individual and team entries, it was necessary to form, in September of 1972, a state-wide Board of Directors under the title of the California Firemen's Athletic Association, Inc. Six members of the board are from the San Francisco Fire Department and the other four represent fire departments located in central and southern California. The purpose of the Board of Directors is to sponsor and manage both the California Firemen's Summer and Winter Olympics on an annual basis.

ADMINISTRATION

O.S.H.A. Committee

The Occupational Safety and Health Act (O.S.H.A.) was signed into Federal law on December 29, 1970. It's purpose is to improve job safety and health by reducing injuries, illnesses and deaths connected with working conditions. This is accomplished by strong enforcement through inspections, investigations and the issuing of citations, including penalties, by Federal and State inspectors. Citations may be issued to employers and also employee supervisors.

In order to prepare for the implementation of O.S.H.A. on local government level when its enforcement becomes the responsibility of the State of California in early 1974, the Chief of Department designated a committee in mid-1971 to study the effect of the Act's regulations on Fire Department operations. This committee, headed by an Assistant Chief, has made many constructive recommendations that will assist in complying. Every section and item from protective clothing, helmets, breathing equipment to ladders has been reviewed and has been subjected to a report.

The committee is now involved in the second part of its study. This concerns physical hazards found on apparatus and in stations or other department locations of employment. Finalization of this phase will be completed before the end of 1973.

B.A.R.T. Committee

The San Francisco Fire Department is ready for the B.A.R.T. revenue phase after successfully solving the many unique fire protection problems of the construction period. The physical plant for fire protection will soon be ready to receive the public. It awaits the delivery of the two B.A.R.T. emergency vehicles to be located in San Francisco and the completion of the fire communication network by the Department of Electricity.

MISCELLANEOUS

During the fiscal year 1972-1973, eighty-two letters of commendation were received in the office of the Chief of Department relative to Department action or various emergencies. All commendations were recorded through the office of the Fire Commission by entry on Journals of Proceedings. Copies of these proceedings are sent to each station.

Contributions to the amount of \$762.00 were received at the office of the Chief of Department for deposit to the Widows and Orphans Aid Association of the fire department. These contributions were duly recorded through the office of the Fire Commission and were given to the Secretary-Treasurer of the Association for deposit and recordation.

PLANNING AND RESEARCH



ENGINE CO. 14 - TRUCK CO. 14

DIVISION OF PLANNING AND RESEARCH

The Division of Planning and Research is charged with responsibility for the real property of the Fire Department; it exercises administrative control over the Auxiliary Water Supply System (High Pressure System) acting through the Bureau of Engineering and Water Supply; it has direct control over repairs and maintenance of all stations and property and improvements thereto; it administers the Fire House Reconstruction Program in co-ordination with the city architect; it arranges for acquisition of lands for building needs, and for disposal of surplus properties; it schedules and budgets for all departmental furniture and maintains inventory records therefor. The Division is the department co-ordinating agency for implementation of the November 1971 Bond Issue to provide a Command & Control System for fire alarm receipt and disposition (the "Silent System"), improvements and extension of the High Pressure System, improvement of the water supply in the outer Sunset district, conversion of the two A.W.S.S. Pumping Stations from the costly and antiquated steam boilers to diesel power. Several strategic gate valves in the high pressure system are to be motorized for remote operation to more rapidly and efficiently control water flow within the system.

The Division prepares the department's Capital Improvements Program; it serves as the fire department representative on the Inter-Departmental Staff Committee on Traffic and Transportation; it represents the department before the Board of Supervisors, and its committees, on matters concerning street closings, street vacations and such matters relative to operational capability throughout the city.

Listed herewith is the status of those projects authorized by the 1964 Fire Station Reconstruction Bond Issue that were not completed as of June, 1972:

Station 14, 551-26th Avenue

Construction completed and station re-occupied on May 18, 1973. This new design for a fire station has won wide acclaim.

Station 37, 2245 Jerrold Avenue

Construction on a new site begun in December, 1972, with completion estimated in late September, 1973.

Station 33, Capitol Avenue, south of Sagamore Street

Construction on a new site begun in June, 1973, with completion estimated by late December, 1973.

Station 3, 1067 Post Street

Plans developed and construction contract out for bids at the time of this report.

Station 4, 1648 Pacific Avenue

Planning will begin when Station 3 vacates their quarters so that relocation of companies therein coincides with the re-occupation of station 3.

Station 48, 798 Wisconsin

This station, listed in the 1964 Bond Issue as Engine 16 because of a proposed amalgamation of the two stations, will receive interior remodeling to a yet undetermined degree dependent on monies remaining in the building account.

Station 1, 115 Drumm Street

Procedures for the acquisition of the present quarters of Engine Co. 1 by the Golden Gateway Center, and construction of a new station at Sansome and Washington streets, are underway at this time. Plans for the new station have been reviewed by the Division and are in the final stages.

During fiscal year 1972-73, the Division processed 1,264 requests for repairs to department buildings; these repairs were those necessary to maintain the stations in current status. In addition, the Division called for, and received, requests from stations for replacement and upkeep items for inclusion in the budget of the Bureau of Building Repair, such as: painting, paving, extensions to electrical, plumbing and carpentry.

Remodeling and reconditioning of various fire stations has been requested in the city-wide Capital Improvements Program, but, because of monetary limitations and priority assignment, only security provisions for some stations will be funded in the coming fiscal year; the other projects have been deferred to fiscal year 1974-75.

Command and Control System

Phase 1, covering the design of the Command & Control System and the preparation of specifications to implement the system, authorized by the Bond Issue of November, 1971, has been completed and presented to the City Purchaser to submit for bidding. The Purchaser states that the project will be submitted for bidding on August 1, 1973.

Because of the complexity of this pioneer system, bidders will be allowed two months for submittals. It is expected that a contractor will be selected, and a contract signed by the latter part of 1973. A time frame of two years from contract signing to operational status is included in the contract terms.

BUREAU OF ENGINEERING AND WATER SUPPLY

This Bureau, under the control and direction of a senior mechanical engineer, is responsible for the maintenance, operation, repair and planning in connection with the Auxiliary Water Supply System (also known as the High Pressure System), a completely independent system of reservoirs, water mains and hydrants for fire suppression purposes only. Areas of responsibility for the Bureau of Engineering and Water Supply include:

1. The Auxiliary Water Supply System (AWSS), which includes: the Twin Peaks reservoir, the Ashbury Storage Tank and Valve House, the Jones Street Tank and Valve House, 114 miles of mains and gate valves, and the 1,384 high pressure hydrants. This system normally supplies fresh water from the domestic water system into the AWSS mains. Also a part of the AWSS are the two pumping stations, located at 2nd and Townsend streets, and at the foot of Van Ness avenue, which are designed to draft from the limitless waters of San Francisco Bay and to pump into the high pressure mains in the event that augmentation of supply is required.
2. Maintenance of the low pressure hydrants which are connected to the domestic water supply mains. During this fiscal year, 57 low pressure hydrants were installed, 5 were permanently removed, and 53 were relocated. There are now 7,776 low pressure hydrants in service.
3. Inspection and maintenance of the 150 cisterns located throughout the city.
4. Dry standpipes installed on buildings are tested by the Bureau before acceptance, and they are periodically serviced by the Bureau. 51 new standpipes were installed, 47 permanently removed, 26 altered, and a total of 2,646 were in service at the end of the fiscal year.
5. Inspection of, and engineering supervision over the engines and pumps of the Fireboat "Phoenix", including the annual dry-docking repairs.

During the past year, high levels of construction activity related to such projects as Bay Area Rapid Transit District, Market Street Reconstruction and Redevelopment Areas D-1 and E-1 have caused numerous scheduled as well as emergency interruptions of sections of the Auxiliary Water Supply System. In some instances, construction projects had to be delayed to avoid simultaneous shutdowns detrimental to available fire flow.

FIRE PREVENTION AND INVESTIGATION



DIVISION OF FIRE PREVENTION AND INVESTIGATION

For the third consecutive year, there has been a downward trend in the number of fire alarms (-173) and the number of false alarms (-1,019), however, there was an increase of 71 building fires over the preceding year.

Fire fatalities totaled thirty-eight (38), which is a decrease of seven (7) from last year's total; and incendiary fires totaled 470, an increase of 67 over last year's total.

The second community college sponsored Fire Prevention training program has been successfully completed by all members of the Fire Prevention Bureau and also by several members on the Bureau promotional list. Two new training courses are being developed that will provide needed information on industrial fire protection systems and protection of hazardous processing and storage.

An important achievement in the past year was the amendment of the San Francisco Building Code which now contains a new Chapter 18 that requires built in fire protection systems for all high rise apartments, hotels, and office buildings. The San Francisco Fire Department provided the thrust for this innovation. The requirements include sprinkler systems, smoke control, improved communication systems and other protective features that will provide a much higher level of life safety in these structures.

A state Senate Bill has also been initiated that will require improved fire protection for existing as well as new high rise buildings.

Besides this code amendment, the Bureau of Fire Prevention is participating in a complete review of the Building and Fire Codes. Bureau personnel have also been appointed to a National Fire Prevention Association committee that is developing a model Fire Code that can be adopted by communities without such protection.

State law now requires that each Fire Department must report to the State Fire Marshal's Office on each fire that occurs in their jurisdiction. The State Fire Marshal, in turn must evaluate the statistics and report thereon to each jurisdiction.

To provide this information using data processing, will require the use of new fire reporting forms which are now being developed. Informational training seminars will be conducted before implementation of the new reporting system.

Following the fifth alarm of fire, on March 21, 1973, that burnt the super-structure of *Pier 7 down to deck level, the Bureau of Fire Prevention was instructed by Chief of Department Keith P. Calden to inspect all waterfront installations and to submit a complete report, with recommendations. Circumstances revolving around this action were reflected in the ever-increasing high combustibility of the piers and wharves under Port Commission jurisdiction.

- (*) Cover photo shows San Francisco Fireboat Phoenix in the midst of the battle to control the conflagration at Pier 7.

DIVISION OF FIRE PREVENTION AND INVESTIGATION

The fiscal year of 1972-1973, was the most disastrous in the recent history of the Port of San Francisco from a destructive fire standpoint. A total of four major alarms occurred on Piers 7, 20, 45 and 48. These fires, as do all fires, had a detrimental effect on the economy of the city. They also endangered nearby property and caused great inconvenience to many. The fire survey report had full expediency in order to curtail the fire potential and to reduce the danger of injury and death to fire fighters.

The final in-depth report contained detailed recommendations on each pier and, after review by Chief Calden, was submitted to the Port Commission. The primary fire protection urged installation of automatic sprinkler protection in pier structures not too dilapidated to require razing. Due to general poor condition and deterioration Piers 1½, 3, 18, 41, 46-A and 52 were recommended to be razed. At the present time, this is being carried out on Piers 18 and 46-A.

The Port Commission has indicated the fire department report will be used as a guideline for future pier improvements.

SUMMARY OF RELEVANT FIRE STATISTICS

Occupancies Where Deaths Occurred

Apartments	-----	15
Dwellings	-----	12
Hotels	-----	6
Hospitals	-----	3
Metal Shop	-----	1
Candle Shop	-----	1

Fatalities by Age Groups

Under fifteen years of age	-----	4	10.5%
Fifteen to sixty-four year of age	-----	25	65.8%
Sixty-five years of age and over	-----	9	23.7%

Most Frequent Cause of Fire

	<u>San Francisco</u>		<u>United States</u>	
	<u>1971-72</u>	<u>1972-73</u>	<u>1971</u>	<u>1972</u>
Smoking and Matches	1,683	1,813	139,160	128,320
Electrical	1,399	1,657	144,280	143,700
Heating & Cooking Equip.	1,008	1,011	76,200	78,340

DIVISION OF FIRE PREVENTION AND INVESTIGATION

BUREAU OF FIRE PREVENTION

The operations of the Bureau of Fire Prevention for the fiscal year 1972-1973 are reported in statistical form as follows:

Inspections and Corrections:

The number of First Inspections Made, Total Inspections and the number of Corrections Obtained during the fiscal year 1972-1973 were as follows:

Total number of First Inspections Made	13,619
Total number of Inspections	23,620
Total number of Corrections Obtained	9,347

Of the total number of Inspections listed above, 998 were Special Complaints from citizens regarding suspected fire hazards, and 138 were Special Investigations of structures involved in Greater Alarms of Fire during the fiscal year.

Permit Processing:

Fire Department Permits.

448 applications for Fire Department Permits were filed in this Division and posting and filing fees collected with these applications during the fiscal year totaled \$5,775.00.

Building Permits.

The following permits were reviewed by Fire Inspectors assigned to the Bureau of Building Inspection:

<u>Classification</u>	<u>Number</u>	<u>Estimated Cost</u>
Type 1	31	\$ 116,709,249.
Type 2	1	3,846,919.
Type 3	63	3,514,291.
Type 4	17	934,400.
Type 5	451	68,582,424.
Alterations	10,292	54,867,356.
TOTALS	10,855	\$ 253,454,639.

During the fiscal year, 1972-1973, 1,311 applications for building permits, new construction or alterations, were reviewed by Inspectors of the Bureau of Fire Prevention.

Occupancy Permits.

Investigations were made and reports forwarded recommending approval or disapproval of fire clearance of applications for permits and licenses as were received from the other Departments or Agencies.

DIVISION OF FIRE PREVENTION AND INVESTIGATION

Miscellaneous Reports and Communications.

- (1) 638 reports from Battalion Chiefs of special building inspections were received. These reports were processed for investigation and abatement of violations by this Bureau.
- (2) During the Fiscal Year, 170 Notices of Violation regarding non-compliance were issued to obtain compliance with state and local safety codes.
- (3) The number of Communications sent out by this Bureau during the Fiscal Year was 1,402.
- (4) Numerous meetings, special tests and inspections were made and attended by the officers and members of this Bureau. In addition 63 schools were visited, 117 talks given to a total attendance of 16,435 students.

BUREAU OF FIRE INVESTIGATION

Field Activities:

a) Investigation of Fires:

Special Investigations -----	938
Follow-up Investigations -----	809
Incendiary Origin -----	470
Greater Alarms -----	138
Undetermined Origin -----	4
Burn Cases -----	128
Deaths -----	38

b) Arrests and Dispositions:

Felonies:

Arrests -----	19
Convictions -----	15
Cases Pending -----	5
Acquittals -----	9

Misdemeanors:

Arrests -----	29
Convictions -----	18
Cases Pending -----	1
Acquittals -----	13
Citations -----	0

Juveniles:

Cases held under Juvenile Jurisdiction -----	26
Not Cited -----	49

c) Court Appearances and Testimony ----- 94

d) Special Complaints Referred from Bureau of Fire Prevention:

Investigations -----	86
Follow-up Investigations -----	27

PORT FIRE MARSHAL
SAN FRANCISCO PORT COMMISSION

This report summarizes in brief the operational functions of the office of the Port Fire Marshal during the fiscal year 1972-73. Major fires along the waterfront increased dramatically in comparison to previous fiscal years. Shown in the following chronological order, they can be viewed as to their intensity by degree of alarm:

August 15, 1972	Fourth Alarm Pier 45
November 30, 1972	Fifth Alarm Pier 20
March 2, 1973	Fifth Alarm Pier 7
June 26, 1973	Third Alarm Pier 48

During the time covered in this Annual Report, a total of 7 fourth alarms occurred in the City and County, one of which was on Pier 45. However, the only fifth alarms were the two listed on San Francisco Port property. Overall fire incidents advanced in the period reported. This becomes obvious when a contrast is provided between fiscal years:

<u>Occupancies and/or Types of Fires</u>	<u>Fiscal Year</u>	
	<u>1971-72</u>	<u>1972-73</u>
Pier deck, super-structure stringer or piling	21	44
Ship or small craft	6	10

The seriousness of the fire hazards developing on waterfront properties caused the Chief of Department to require a fire inspection survey made of Port Commission waterfront areas. This survey was the responsibility of the Bureau of Fire Prevention. Submission was made to Mr. Cyril Magnin, President of the Port Commission on June 1, 1973. Implementation of the initial recommendations found in the survey have commenced with the razing of the super-structures of Piers 18 and 46A.

Fire Prevention activities are the most important single segment of the Port Fire Marshal's duties. Approximately 20 welding and burning permits are issued to certain contractors on a monthly renewable basis for utility and general maintenance purposes. Other permits and certificates issued that receive on-site inspections include those for hazardous cargoes and fumigations totaling 1,048 for the fiscal year.

Operations of the Port Fire Marshal are, in all phases, closely coordinated with the offices of the Port Commission, the Chief of the Fire Department, Chief of the Division of Fire Prevention and Investigation, United States Coast Guard, Captain of Port, Bay Area Waterfront Fire Safety Council and Pier Superintendents of shipping companies.

NATIONAL FIRE PREVENTION WEEK

NATIONAL FIRE PREVENTION WEEK, emphasizing fire safety rules for the public, was nationally recognized the week of October 8 - 14, 1972.

The following release by Chief of Department Keith P. Calden was presented to the citizens of San Francisco through the City's news media, as a kickoff statement for Fire Prevention Week:

"Over the past years, an average of 42 people lost their lives through fire in San Francisco. Many of these deaths involved children and the elderly. Some of these tragedies can be prevented by proper education in Fire Prevention and additional inspections.

Many of the senior citizens of San Francisco are moving from dwellings of their younger days to hotels and apartments being built or converted for more comfortable, homey living areas. These structures demand more than normal inspection. Educational programs can be easily instituted in these new environments.

Intensive school programs can be used for education of children.

Vital services are denied many due to manpower shortage. You can help by requesting your elected officials to supplement Bureau of Fire Prevention personnel.

An ounce of Fire Prevention may save YOUR life."

Fire Prevention Week was the starting point for strong enforcement of no smoking regulations in retail stores. Full cooperation was received from the Retail Dry Goods Association and the Retail Merchants Association. The citizens of this City, through their adherence, were the key to the success of the program.

DIVISION OF FIRE PREVENTION AND INVESTIGATION

National Fire Prevention Week (Cont.)

The following was also included in San Francisco's Fire Prevention Week:

FIRE HOUSES OPEN TO THE PUBLIC

Sunday, October 8
through 10:00 A. M. to 4:00 P. M.
Saturday, October 14

S. F. F. D. PIONEER MUSEUM
(Presidio at Euclid)

Monday, October 9 9:30 A. M. to 12:00 Noon
through and
Friday, October 13 1:00 P. M. to 5:00 P. M.
Saturday, October 14 1:00 P. M. to 5:00 P. M.

FIREMEN'S ART SHOW

Tuesday, October 10 Federal Building, 450 Golden
through Gate Avenue, Main Floor
Friday, October 13 9:00 A. M. to 4:00 P. M.
(Judging: Thursday, 12:00 Noon)
(Awards: Friday, 12:00 Noon)

FIRE PREVENTION DISPLAY

Tuesday, October 10 Federal Building, 450 Golden
through Gate Avenue, Main Floor
Saturday, October 14 Emporium Department Store,
Downtown, Market Street Window

Several Civic, State and Federal Agency displays, with presentation by Bureau of Fire Prevention personnel.

HIGH RISE, SKY SCRAPER FIRE DRILL

Wednesday, October 11 9:30 A. M. Federal Building
450 Golden Gate Avenue

Department Battalion Chief and members of the Bureau of Fire Prevention observing.

FLAMMABILITY TEST -- CHILDREN'S SLEEPWEAR

Wednesday, October 11 Division of Training
9:30 A. M. Folsom at 19th Streets

Vivid display of dangers to which children are subjected when clothed in highly flammable sleepwear. Spelled out need for legislation on all levels to abolish sale of unsafe clothing.

Members of the Division of Fire Prevention and Investigation and Department members connected with Special Service Units were used at numerous presentations and demonstrations throughout the City.

TRAINING



During Fiscal Year 1972-73, the Division of Training continued its function as the directional center of instruction for the Department.

Because the expected H2 Entrance List and resultant probationary classes failed to materialize, training has focused upon the following areas:

1. Company Evaluations
2. Battalion Evolutions (Multi Company Drills)
3. Instructional Sessions

Company evaluations involve companies performing one or more drill evolutions at the training center. The type drills have been published in training bulletins distributed to stations. This concept of training places responsibility for instruction on the company officer. Written evaluations are made by Division of Training personnel and are on file. Reports of poor evaluations are sent to the company's Battalion Commander as well as its Captain.

Battalion evolutions involve participation of a District Chief, his Operator, three of his Engine companies and one or two of his Truck companies. A problem is presented to the group. The Battalion Chief then directs his companies in extinguishing the simulated fire and performing other necessary tasks. A Training Officer conducts a critique at which time the methods utilized in solving the fire problem are discussed and evaluated by the group.

Instructional sessions involve direct training of personnel by fire college staff officers. These sessions included overhauling and ventilation, oxy-acetylene burning, use of new tools or appliances prior to their being put in service and fire pre-planning.

Other areas of training that took place during Fiscal 1972-73 included:

1. Company Officer Instructor Training: A course conducted at the Fire College by State Fire Training personnel. Approximately 250 officers participated in the 36-hour course.
2. Navy Fire Fighting School, Treasure Island: A 4-hour course in fire fighting was attended by 33 Battalion Chiefs, their Operators and 188 Engine and Truck company crews.
3. First Aid: The State-required Standard First Aid Course was completed by all fire fighting personnel during the year.
4. Overhauling-Ventilation: Truck and Engine companies received instruction in forcible entry, ventilation, overhauling and salvage procedures using buildings scheduled for demolition.
5. Relief Operators Course: A 6-day course prepared 26 firemen to become qualified as Relief Operators.
6. Pre-Planning: Fire Pre-planning exercises were conducted at the Homewood Terrace area. All first and second alarm companies plus cover companies participated during the 9-day exercise.



ON SITE TRAINING
DEMONSTRATION

DIVISION OF TRAINING

Additional responsibilities of the Division of Training included: Assisting the Airport Division in their specialized training; aiding the Bureau of Equipment in the testing of new equipment; budgeting, ordering, and dispensing protective clothing for the fire fighting forces; assisting in the licensing of Department drivers; processing identification cards; maintaining training manuals in a current state; planning, researching, testing and evaluating drill evolutions, training courses and the instructional needs of the Department.

<u>Direct Training</u>	<u>Number of Company Crews Participating</u>
Drills and Evaluations	713
Battalion Evolutions	188
Total	<u>901</u>
Man-hours of Direct Training - 18,723*	

(*) Company and individual attendance at Fire College and overhauling sites.

Budgeting for, maintenance of, and instruction in the Departmental breathing apparatus program is under the jurisdiction of our Technical Supervisor, Operator John Mitchell. He is, additionally, the Departmental Specialist in emergency resuscitation and supervises instruction within the Department on both subjects. As a public service, and on request from various organizations, Operator Mitchell conducts a program of Public Education on Emergency Resuscitation.

Summary of Training performed by Operator Mitchell is detailed as follows:

In-Service Fire Companies trained:

77 Companies	712 men	1,780 man hours
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Public Education Training:

104 Lectures	4,584 persons	9,168 man hours
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Recap of the 1972-1973 experience in resuscitation service performed these figures:

<u>Resuscitation Responses</u>		<u>680</u>
Positive Results	582)	680
Negative Results	98)	
Mechanical Resuscitation	517)	680
Mouth to Mouth	42)	
External Heart Compression	121)	

Our Department is now equipped with 342 complete $\frac{1}{2}$ -hour Scott Air-Paks; each unit has spare cylinders. Also, there are now 34 Elder resuscitators in service, distributed to various units in our department. By the end of calendar year 1973, all Engine companies will be equipped with Elder resuscitators.

FIRE FIGHTING AND RESCUE SERVICES



FIRE FIGHTING AND RESCUE SERVICES

Headquarters Chief Officers

DIVISION NO. 1

Engine Co. No. 1 115 Drumm Street

Division No. 1

Battalion No. 1	Engine Co. No. 2	1340 Powell Street
Battalion No. 2	Engine Co. No. 36	109 Oak Street
Battalion No. 3	Engine Co. No. 35	676 Howard Street

DIVISION NO. 2

Engine Co. No. 5 1301 Turk Street

Division No. 2

Battalion No. 4	Engine Co. No. 38	2150 Calif. Street
Battalion No. 5	Engine Co. No. 21	1443 Grove Street
Battalion No. 7	Engine Co. No. 31	441 - 12th Avenue
Battalion No. 8	Engine Co. No. 40	2155 - 18th Avenue

DIVISION NO. 3

Engine Co. No. 10 2300 Folsom Street

Division No. 3

Battalion No. 6	Engine Co. No. 13	3880 - 26th Street
Battalion No. 9	Engine Co. No. 15	1000 Ocean Avenue
Battalion No. 10	Engine Co. No. 42	2430 San Bruno Avenue

Division of Airports

S. F. International Airport
Airport Rescue Company No. 1, No. 2 and No. 3

Department Buildings

The various units of the Department are stationed in the following buildings:

- 1 Department Headquarters
- 44 Company Stations
- 2 Airport Company Stations
- 1 Communications Center
- 1 Assignment Center (located at Department Headquarters)
- 1 Bureau of Equipment Headquarters
- 2 Pumping Stations (High Pressure System)
- 1 Reservoir Station (High Pressure System)
- 2 Warehouses (Storage)
- 1 Deactivated Company Station
- 1 Pipe Yard Station (High Pressure System)



RESCUE OPERATION - LANDS END



2nd ALARM - 525 NATOMA

FIRE FIGHTING AND RESCUE SERVICES

Organization

The 1972-1973 organizational plan of the fire fighting divisions, battalions, companies and special units of the Department is detailed in the Organization Chart contained in this report. Personnel assigned there-to are detailed in the Personnel Chart of this report. Fire fighting personnel continued to work a 48.7 hour week. Basic tour of duty is a 24-hour shift.

Apparatus and Equipment

Due to the successful \$8,491,000 Bond Issue passed by the voters on November 2, 1971, the citizens of San Francisco will be provided with increased, modernized fire protection. The main thrust will be new fire fighting apparatus and equipment. The apparatus, including new equipment now on order through the City Purchaser, will consist of:

- 10 - New Triple Combination Pumpers, diesel powered with automatic transmissions.
- 4 - New Aerial Ladder Trucks, diesel powered with automatic transmissions.
- 1 - Snorkel Truck
- 3 - Articulated Squirt Apparatus, mounted on Hose-tender chassis, to replace our out-moded Water Towers.
- 4 - Tank vehicles with removable plastic tanks to increase versatility. These trucks will be equipped with four-wheel drive.
- 1 - New special truck for cliff and shoreline rescues.

In addition to the Bond Issue, three new triple combination pumpers and one new aerial ladder truck were granted in the 1972-1973 fiscal budget. The purchase of apparatus by means of these sources of revenue will place our first line apparatus within the desired fifteen year life span. Also, the Department will now have fairly modern reserve apparatus to be used when regular units are undergoing repairs, or to be utilized in times of disaster or multiple major alarm fires when the off-duty shift has been recalled.

On December 22, 1972, one new aerial ladder truck was received at Central Shop. Early in 1973, two hundred and eighty lengths of three inch hose with new style quick couplings and two hundred lengths of one and one half inch hose arrived by shipment.

A supplemental appropriation in February of 1973 provided one automatic transmission, thirteen apparatus and vehicle radios, two 35 foot extension ladders, two 24 foot straight ladders, one spanner pattern, one hundred and twenty-eight spanners and two Hurst Power Rescue Tools.

FIRE FIGHTING AND RESCUE SERVICES

Recapitulation of Fire Department Response, 1972-1973

a) Transmission of Alarms:

	<u>Bell Alarms</u>	<u>Still Alarms</u>	<u>No Alarm Fire</u>	<u>Total Alarms</u>
July, 1972	1,824	1,467	3	3,294
Aug., 1972	1,416	1,131	2	2,549
Sep., 1972	1,456	1,109	3	2,568
Oct., 1972	1,393	1,095	4	2,492
Nov., 1972	1,176	998	1	2,175
Dec., 1972	1,148	1,048	2	2,198
Jan., 1973	1,011	1,080	6	2,097
Feb., 1973	1,077	888	6	1,971
Mar., 1973	1,259	1,008	10	2,277
Apr., 1973	1,313	1,071	5	2,389
May, 1973	1,494	1,403	4	2,901
June, 1973	1,630	1,573	5	3,208
TOTALS:	16,197	13,871	51	30,119

b) Actual Fires

	<u>Bell Alarms</u>	<u>Still Alarms</u>	<u>No Alarm Fire</u>	<u>Total Fires</u>
July, 1972	510	680	3	1,193
Aug., 1972	358	430	2	790
Sep., 1972	309	360	3	672
Oct., 1972	278	287	4	569
Nov., 1972	287	231	1	519
Dec., 1972	383	329	2	714
Jan., 1973	282	242	6	530
Feb., 1973	231	192	6	432
Mar., 1973	306	252	10	568
Apr., 1973	361	354	5	720
May, 1973	448	579	4	1,031
June, 1973	539	821	5	1,365
TOTAL FIRES:	4,295	4,757	51	9,103

c) False Alarms:

	<u>Bell Alarms</u>	<u>Still Alarms</u>	<u>Total False</u>
July, 1972	1,197	19	1,216
Aug., 1972	929	11	940
Sep., 1972	1,008	13	1,021
Oct., 1972	979	7	986
Nov., 1972	763	1	764
Dec., 1972	559	12	571

FIRE FIGHTING AND RESCUE SERVICES

c) False Alarms: (Cont.)

	<u>Bell Alarms</u>	<u>Still Alarms</u>	<u>Total False</u>
Jan., 1973	587	7	594
Feb., 1973	688	11	699
Mar., 1973	798	13	811
Apr., 1973	813	24	837
May, 1973	885	23	908
June, 1973	953	37	990
 TOTAL FALSE ALARMS:	 10,159	 178	 10,337

d) Street Fire Alarm Boxes Activated:

	<u>F.A. Boxes Activated *</u>	<u>F.A. Boxes False</u>	<u>Street F.A. Boxes</u>	<u>Street F.A. Boxes False</u>
July, 1972	1,799	1,197	1,486	1,092
Aug., 1972	1,393	929	1,110	854
Sep., 1972	1,444	1,008	1,146	930
Oct., 1972	1,379	979	1,110	940
Nov., 1972	1,163	763	856	699
Dec., 1972	1,132	559	689	513
Jan., 1973	985	587	695	552
Feb., 1973	1,049	688	811	658
Mar., 1973	1,227	798	877	728
Apr., 1973	1,297	813	941	740
May, 1973	1,477	885	1,175	855
June, 1973	1,615	953	1,279	906
 TOTALS:	 15,960	 10,159	 12,175	 9,467

*This figure is minus Greater Alarms, Special Calls & No Alarms.

It is noted that of the total 15,960 Fire Alarm Boxes activated during the fiscal year 1972-1973, 12,175 of these Fire Alarm Boxes were activated by citizens from Street Fire Alarm Boxes, of which 9,467 were False Alarms, for an average of 77.7 per cent. The difference between the total fire alarm boxes activated and the number of street fire alarm boxes activated - 3,785 - denotes the number of box alarms determined by the dispatcher.

e) Special Calls

In Conjunction with Other Alarms ----- 99

f) Major Alarms

Second Alarms ----- 100
 Third Alarms ----- 29
 Fourth Alarms ----- 7
 Fifth Alarms ----- 2

TOTAL ----- 138



RESCUE OPERATION - MISSION STREET OFF RAMP



3RD ALARM - 818 WASHINGTON

FIRE FIGHTING AND RESCUE SERVICES

Type of Response: (Fiscal Year 1972-1973)

Building Fires -----	4,064
Vehicles -----	1,351
Wharves and Piers -----	44
Boats and Ships -----	10
Grass and Rubbish -----	3,109
Miscellaneous Fires -----	525
Emergencies Other than Fires (Including 680 Resuscitations) -----	10,312
Vicinities -----	130
Greater Alarms -----	138
Special Calls -----	99
False Alarms -----	10,337
GRAND TOTAL OF ALARMS (TOTAL RESPONSE) -----	<u>30,119</u>

Deaths at Fires:

Male -----	20
Female -----	18
TOTAL -----	<u>38</u>

Special Services:

The Department responded to 10,312 alarms for other than fire service during the past year. These alarms included resuscitations, first-aid, lock-outs, cliff rescues, automobile accidents, people trapped in elevators, cave-ins, industrial accidents and a wide variety of other emergencies.

The services of the Department are increasingly sought for resuscitation and first-aid assistance. The responses involving resuscitations totaled 680 within the City of San Francisco and 133 at the San Francisco International Airport for a total of 813 responses.

Every member of the Department is trained and up-dated continually in resuscitation techniques. Rapid response to any incident of this type is assured through the strategic Fire Station locations throughout the city.

Salvage Operations:

Salvage operations are a primary function in the San Francisco Fire Department. Quick and efficient application of salvage equipment has been responsible for greatly reducing the fire and property loss during the past year.

- a) Salvage operations are started as soon as the Department arrives at the scene of a working fire and are continually applied even after the fire is extinguished.
- b) Salvage operations are essential in the reduction of damage and property loss from other than fire such as wind, storm and rain damage, broken water pipes, and other water leaks.

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TORONTO: 250 Spadina Avenue, Toronto 1, Ontario, Canada

MEXICO: 1000 Avenida de la Reforma, Mexico 1, D.F.

SINGAPORE: 100, North Bridge Road

HONG KONG: 100, Queen's Road Central

TOKYO: 1-1-1, Nishi-Shinjuku, Shinjuku-Ku, Tokyo 163

OSAKA: 1-1-1, Nishi-Shinjuku, Shinjuku-Ku, Tokyo 163

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Kobe: 1-1-1, Nishi-Shinjuku, Shinjuku-Ku, Tokyo 163

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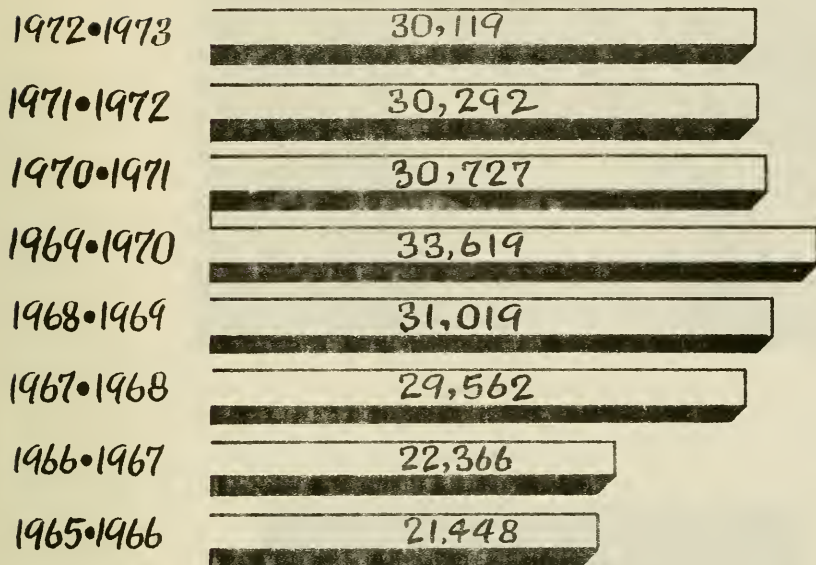
Sendai: 1-1-1, Nishi-Shinjuku, Shinjuku-Ku, Tokyo 163

Yokohama: 1-1-1, Nishi-Shinjuku, Shinjuku-Ku, Tokyo 163

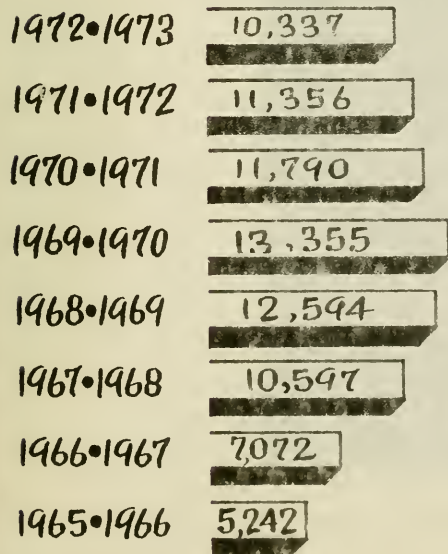
Tokyo: 1-1-1, Nishi-Shinjuku, Shinjuku-Ku, Tokyo 163

EIGHT YEAR RECORD

TOTAL ALARMS



FALSE ALARMS





3rd ALARM - 21st & VALENCIA



RESCUE OPERATION - STANYAN & ANZA

Salvage Operations (Cont.)

Every Truck Company now carries seven salvage and three roof covers. Engine Companies carry two salvage covers each. Within the next fiscal year all companies will be salvage equipped as required by the National Fire Protection Association.

The following salvage operations were performed during the fiscal year 1972-1973:

Salvage covers spread -----	456
Roof covers spread -----	167
Sprinkler heads replaced -----	186
Roofing paper (Rolls) -----	40
Polyethylene (Rolls) -----	80
Rental fees for covers -----	\$5,860.50

Fire Safety Survey - 1972-1973

The Fire Safety Survey Program is a three-phase public service operation of the Fire Department involving the assignment of in-service companies of the fire fighting service to field inspections. The three phases of the program are:

- a) Home inspection
 - b) Structural survey
 - c) Area orientation
- a) Home inspection is part of the program designed to detect and correct the common fire hazards that may be present in the home, and be of assistance to the residents in making their home fire-safe thus reducing dwelling fire and life loss.
- b) Structural Survey involves companies familiarizing themselves with the various fire fighting features of larger buildings in their respective areas. Such features as sprinkler systems, standpipe systems, fire escapes and building egress are evaluated.
- c) Area orientation involves the location of hydrants, fire alarm boxes, narrow or congested streets, and cisterns for fire use in the companies area.

HOME INSPECTIONS

Total Homes Contacted -----	15,980
Total Homes Admitted -----	6,125
Total Homes "Not In" -----	8,226
Total Homes Declined -----	1,629

STRUCTURAL AND AREA SURVEYS

Total Buildings and Areas Surveyed -----	805
Total Company Inspection Hours -----	1,610



4th ALARM - PIER 45



FIRE COMBAT PHOTOGRAPHER
INSPECTOR CHET BORN

FIRE FIGHTING AND RESCUE SERVICES

Fire Safety Survey (Cont.)

HAZARDS DETECTED

Electrical -----	167
Smoking - Matches -----	402
Flammable Liquids -----	251
Stoves - heating -----	107
Rubbish Storage -----	956
Miscellaneous -----	278
Total	2,261

Water Rescue and Fire Fighting Scuba Unit

The Diving Unit continued operations throughout the year, as in the past. The unit consists of 50 members, under the command of a Captain. The need for the diving unit has proved itself especially with the fire potential along San Francisco's waterfront. It is anticipated that the unit will continue to expand its services to the Department and the citizens of San Francisco.

Summary of Activities

Emergency Response	30 -	Emergency service	62 hours
Drills	14 -	Training service	33 hours
Public Appearances	4 - - - -	service	16 hours
Total Service		111 hours	

Harassment - Incidents

During the fiscal year of 1972-73, eight incidents involving harassment occurred.

The total number is a decrease of twelve (12) from the previous year and discloses a continual downward trend in harassment incidents. This trend is attributed to the efforts of our Community Relations Bureau and F.L.A.M.E., our sports program for juveniles.

Apparatus subject to initial response in areas of high harassment incident, are provided with cabs to protect personnel assigned thereon from thrown missiles when responding to, or returning from, emergency alarms.

Additional protection is provided all fire fighting companies by use of the "Toptex" helmets, designed to provide maximum protection of the head, face, neck and ears against thrown or falling objects for each fire-fighter assigned thereto. These helmets are not normally worn but are available to every fire-fighter at fire stations to be used during appropriate times.

DIVISION OF AIRPORTS



DIVISION OF AIRPORTS

Organization

The Division of Airports is organized into a Division headquarters and two (2) subordinate Airport Rescue Companies. Division Headquarters and Airport Rescue #1 are located in Rescue Station #1. Airport Rescue #2 is located in Rescue Station #2.

The Division Chief and the Training Officer work a five (5) day week and are subject to recall in their off-duty status. Other personnel work the standard shift worked by the San Francisco Fire Department. Manning daily, for Airport 1 is one (1) officer and nine (9) firemen; Airport 2 manning is one (1) officer and four (4) firemen.

Reorganization

Effective July 1, 1973, the Division of Airports will add the Office of Inspection and reorganize the fire fighting force into two (2) aircraft rescue companies and one (1) structural fire fighting company. Each company will be commanded by a Captain.

This reorganization will provide the long sought separation of aircraft rescue from structural protection and the additional supervision necessary. It will also provide a ranking officer in command on an around-the-clock basis.

Responsibilities

The Division of Airports is responsible for:

1. Aircraft rescue and fire protection to the standards specified Federal Aviation Regulations (FAR) 139 and to Advisory Circulars (AC) as directed by the Federal Aviation Administration (FAA).
2. Structural fire protection to applicable local, state and national codes.
3. Emergency first-aid and resuscitation.
4. Fire prevention and inspection of all SFIA facilities.
5. Administrative management to include: budget preparation, development of all equipment specifications, purchasing, contracts, permits, maintenance of records and personnel management.
6. Aircraft and structural fire training to the standards of the San Francisco Fire Department and the FAA Advisory Circulars.

Training

Training of Division personnel in aircraft and structural fire protection procedures is conducted five days a week in the mornings; afternoons are reserved for airfield inspection and familiarization; and Saturdays are reserved for hydrant inspection. Overall supervision of training is monitored by the Division Chief and conducted by the Training Officer and company officers.

DIVISION OF AIRPORTS

Training (Cont.)

Man-hours of Training

Direct Training - - - - - 3,718 man hours
 Related Training - - - - - 725 man hours

Fire Prevention

Number of Inspections ----- 72
 Number of Violations ----- 2
 Number of Corrections ----- 2
 Number of Permits Issued ----- 54

Emergency Alarms

Alert #1 is a potential accident or an actual emergency, but the aircraft is not expected to arrive for at least five (5) minutes. Alert #2 is an accident that has occurred or is imminent. Code 10 is a bomb threat.

Mo/Yr	Alert 1	Alert 2	Fire Alarm	Fuel Spill	First Aid	Code 10	Alarm Total	Total Service
July 72	20	1	16	8	37	4	86	76:50
Aug. 72	22	1	24	13	73	2	135	120:08
Sep. 72	22	1	12	10	48	4	97	212:40
Oct. 72	18	1	21	16	55	2	113	179:20
Nov. 72	23	1	22	10	45	1	102	53:50
Dec. 72	18	1	23	3	52	4	101	65:00
Jan. 73	18	1	23	4	26	4	76	52:25
Feb. 73	21	1	23	5	46	1	97	66:15
Mar. 73	19	0	20	9	38	3	89	99:40
Apr. 73	24	2	23	19	37	2	107	157:40
May 73	19	0	16	16	51	0	103	108:20
June 73	32	2	11	20	51	0	116	120:15
<hr/>								
TOTAL	256	12	234	134	559	27	1,222	1,412:23

First Aid Response

Resuscitations ----- 133
 Cardiac Compression ----- 13
 Misc. First Aid ----- 433
 Total ----- 579

Notable Incidents

July 6 Cessna 206 overturned on landing. Pilot had lacerations on face, trapped in his seat with wing folded around cockpit. Removed pilot safely within five (5) minutes.

DIVISION OF AIRPORTS

Notable Incidents (Cont.)

- Sep 13 TWA 707 Cargo-jet went off north end of runway 1R on takeoff. Crew evacuated safely. One (1) rescue truck stood by for 24 hours until aircraft defueled. Light unit plus extensions was used for five (5) nights.
- Oct 1 UAL 727 lost right landing gear on landing, went off runway and collided with TVOR building. Rescue equipment on scene in thirty (30) seconds, assisted in the evacuation of passengers and stood by in the event of fire. No fire and minor injuries to passengers during evacuation. Two (2) rescue trucks stood by until aircraft removed from airfield. Light unit used for six (6) hours.
- Jan 13 Single engine Bonanza landed in the Bay, one (1) mile east of runway 28L. Coast Guard rescued one passenger. Scuba team continued search for second passenger.
- Apr 6 Piper Tripacer overturned on taxiway. No injuries.
- Apr 17 Cessna Turbo overturned landing on 28R. Aircraft sustained major damage. No injuries.
- June 30 Western Air Lines 720, on landing, blew four (4) tires on left side and three (3) tires on right side. Wing was damaged on left side. One hundred and one (101) passengers and eight (8) crew members. No injuries.

DEPARTMENT CHAPLAINS



REVEREND
CHARLES J. DURKIN



REVEREND
RONALD GRUMM



RABBI
MARTIN WEINER

In Memoriam

NAME	RANK	DATE	STATUS
Reedy, Arthur	Fireman	7-6-72	Retired
Wuesterfeld, Joseph J.	Fireman	7-6-72	Retired
Dillon, Lawrence J.	Assistant Chief	7-10-72	Retired
Gardner, Frederick D.	Lieutenant	7-11-72	Retired
Smith, Gerald E.	Fireman	7-11-72	Retired
Rose, Frank J. Jr.	Lieutenant	7-12-72	Retired
Roche, James M.	Fireman	8-12-72	Retired
Bruhn, Peter A.	Lieutenant	8-20-72	Retired
Tuohey, Robert L.	Lieutenant	8-24-72	Retired
Smith, William J.	Battalion Chief	8-25-72	Retired
Wood, Fred J.	Fireman	8-31-72	Retired
Donovan, Daniel B.	Marine Engineer	9-7-72	Retired
Walsh, Leonard J.	Fireman	9-12-72	Retired
Crowley, Timothy S.	Fireman	9-14-72	Retired
Martinez, Victor D.	Fireman	9-30-72	Retired
Cunfermann, John	Captain	10-6-72	Retired
Rockwell, Charles F.	Fireman	10-18-72	Retired
Prior, Dale C.	Lieutenant	10-20-72	Retired
Jorgensen, Raymond	Fireman	10-27-72	Retired
Donald, David I.	Lieutenant	10-29-72	Retired
Sultan, Alford S.	Marine Engineer	10-30-72	Active
Hicks, George F.	Fireman	11-14-72	Active*
Mallon, James	Fireman	11-15-72	Retired
Strong, Robert E.	Utility Plumber	11-20-72	Retired
Tegen, William	Fireman	12-4-72	Retired
De Vincenzi, Jack	Inspector	12-5-72	Retired
Moule, Howard D.	Captain	12-8-72	Retired
Pugh, Andrew F.	Fireman	12-9-72	Retired
Beggs, Neil F.	Fireman	1-9-73	Retired
Peter, Eugene T.	Lieutenant	1-11-73	Retired
Knight, William G.	Fireman	1-15-73	Retired
Goette, Frederick G.	Lieutenant	3-12-73	Retired
Maloney, Daniel J.	Fireman	3-18-73	Retired
Keller, Frederick H.	Fireman	3-27-73	Retired
Jones, Arthur W.	Lieutenant	3-30-73	Active*

THE HISTORY OF THE

REIGN OF

CHARLES THE FIRST

BY

JOHN BURNET

IN TWO VOLUMES.

In Memoriam

NAME	RANK	DATE	STATUS
Parina, Anthony F.	Fireman	3-31-73	Active*
Kruger, Carl P.	Fireman	4-4-73	Retired
Cody, Vernon F.	Battalion Chief	4-5-73	Retired
May, Charles C. Jr.	Fireman	4-16-73	Retired
Lyons, John F.	Operator	4-18-73	Retired
Dalmas, Grover O.	Fireman	4-26-73	Retired
Moholy, John J.	Fireman	5-11-73	Retired
Fives, James J.	Foreman-Hydrant Gateman	5-24-73	Retired
Roche, Thomas W.	Assistant Chief	6-14-73	Retired
Coyne, Donald J.	Lieutenant	6-19-73	Active*
Maguire, George C.	Fireman	6-20-73	Retired

* On Duty

SAN FRANCISCO FIRE DEPARTMENT



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ANNUAL REPORT

1973~1974





Honorable
JOSEPH L. ALIOTO
MAYOR
F I R E C O M M I S S I O N



Honorable
FRANK HUNT
Commissioner

Honorable
MORRIS BERNSTEIN
Vice President

Honorable
RUDY THAM
President



RAYMOND G. CONNORS, JR.
Secretary



KEITH P. CALDEN
CHIEF OF DEPARTMENT



JOSEPH P. DALY
DEPUTY CHIEF OF DEPARTMENT



THESE MEN OF THE SAN FRANCISCO FIRE DEPARTMENT GAVE THEIR LIVES TO SAVE LIVES WHEN DISASTER STRUCK BY FIRE OR OTHER CIRCUMSTANCE NOT FORESEEN

1973

mayor JOSEPH L. ALIOTO
fire commissioners
RUDY THAM
MORRIS BERNSTEIN
FRANK HUNT
chief of department
KEITH P. CALDEN

I	II	III	IV
1851 JAMES WELSH 1853 JAMES DOUGHERTY VI-22 1854 SAMUEL BUMM III-11 JOHN TEISING XI-28 1855 THOMAS MURRAY I-27 T.F. SEWARD XI-2 1859 WILLIAM LOUDENBACH VII-20 1860 ELBERT BARBER XI-27 1863 EDWARD T. ALLEN III-1 J.M. JACKS VIII-31 1865 WALTER BOHEN VIII-31 1879 E. KIERNAN XI-4 1880 JOHN CHESTER VII-5 1882 MATTHEW BRADY XI-21 1883 JOHN E. ROSS IV-3 1885 MICHAEL McLAUGHLIN VI-10 GABRIEL BEAUJEU XI-14 MARTIN H. HANNAN X-8 PETER HEALY X-8 1886 WILLIAM B. LUDLOW I-11 JOHN E. FLEMING V-1 GEORGE L. POST VII-23 1887 JOHN J. WILKINSON II-10 JOHN M. COOK VI-28 MICHAEL J. NAGLE XI-25 1890 EDWARD RILEY XI-29 1891 WILLIAM HUNT VII-4 1892 THOMAS KENNEDY V-20 1893 A.E. DAVIS VI-7 JOSEPH MADISON VI-7 RICHARD WINDROW VI-7 MORRIS BUSHWAY VIII-9 JOHN CRONIN X-6 JOHN B. PERALTA XI-11 1895 JAMES BAIN I-15 1897 JOHN MORRIS I-6 TIMOTHY HALLINAN I-6 1898 MICHAEL KELLEHER X-20 1900 HENRY ONEIL V-11 JOHN E. SWEENEY VI-20 1902 HENRY T. HEFFERNAN IX-24 1903 MARK BEARWALD VI-23 1906 CHARLES W. DAKIN I-31 THOMAS J. HENNESSY IV-15 HENRY SULLIVAN IV-18 DENNIS T. SULLIVAN IV-18 JAMES O'NEILL IV-18 1908 GEORGE EWELLS XII-6 THOMAS F. HAYDEN X-5 1909 JOHN H. MULLEN X-5 1910 PHILIP LIMEHAN II-1 FREDERICK J. BAKER IX-3 1911 JAMES C. CROWLEY I-26 JAMES BUCKLEY V-31	1912 THOMAS LAHERN III-17 1914 JOHN F. MEACHAM VI-28 WILLIAM W. NEIFER VII-5 WILLIAM A. CAREY IX-9 1915 DENNIS J. MURPHY XI-7 1916 JOSEPH W. CORWELL VI-11 JOSEPH ALLEN X-5 STEPHEN D. RUSSELL X-5 TIMOTHY E. COLLINS X-5 JOSEPH H. COLEMAN XI-27 1919 JOHN J. CONLON III-2 THEODORE B. KENTZEL IV-25 JOSEPH RYAN 1920 OWEN WILLIAMS VI-7 BERNARD E. McDERMOTT X-9 1922 WILLIAM J. COOPER I-9 WILLIAM SKIRNATRICK I-9 ANTON LOGER I-9 1923 JULIUS PHILLIPS I-25 1924 FRANK W. BECKER X-20 1925 JAMES C. HERLIHY VI-15 JOHN E. LAVARONI IV-4 1926 PATRICK W. GORDON VIII-28 1927 DAVID J. BARTY I-1 1931 WILLIAM E. ROSEN III-1 1932 FLORENCE SCANNELL I-1 TIMOTHY J. DISCOLLO III-9 1934 JOSEPH A. SULLIVAN VII-31 1937 OWEN E. McNULTY VIII-10 1938 WILLIAM LARKIN II-15 PATRICK T. DUNLEAVY V-15 JAMES O'MALLEY VI-5 1939 MICHAEL E. MALLEY II-13 1940 JOSEPH FLOOD VIII-24 LOUIS E. SULLIVAN IX-27 1941 HARRY T. BROPHY XII-4 ARTHUR E. MOORE XII-5 1942 CHARLES J. MCCARTHY I-30 1944 JOHN W. WALKER VII-29 FRANK J. GRACIA XII-7 1946 JAMES FURNES VII-25 JOHN M. BORMAN VII-30 ALBERT E. HUDSON VII-30 WALTER VALLEYTRY VII-30 CHARLES F. LYNCH VII-30 1947 PATRICK DUFFY I-2 MICHAEL O'CONNELL X-17 1948 LEO J. CAREY III-18 JOSEPH E. KANE V-15 1950 JOHN J. WEBB IV-13 FRED C. ELLENBERGER VI-2 1951 ALFREDO W. BETTI XII-28 GEORGE J. KEENAN VII-6 1952 JOSEPH P. CORLISS X-2 GEORGE R. WYATT	1954 HERBERT G. MARTIN IV-7 1955 ARTHUR O. LINDBERG IX-18 1960 STANISLAUS I. BYRICK II-4 1961 MICHAEL P. PRISON I-1 1962 DANIEL J. FENNEY VII-12 JOSEPH B. CUFF I-2 1963 FRANK M. LAMLEY I-2 ROBERT V. OROURKE I-2 PATRICK G. BRANNIGAN VI-3 1964 ANDREW E. NEWTON XI-1 THOMAS R. FINERTY X-20 BENNIE KINSEY X-20 ALBERT CHENO X-31 1965 CONNELLY J. LUCY I-10 1966 RAYMOND C. BING I-30 1968 THOMAS E. LYONS I-21 FRED BRADIMSTER IX-2 1969 CARRY NISIDIO III-23 1970 ROBERT L. HUTCHINSON V-22 JOE INTERSIMONE IX-4 1971 WILLIAM A. JOHNSTON I-10 RAYMOND NYMAN II-14 JAMES J. McLEARNY VII-18 1972 GEORGE THACKER XII-14 1973 JOHN A. PANAMA III-31	

DEDICATION CEREMONY
HELD
JANUARY 21, 1974

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Recapitulation of Fire Department

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Cover Story: At a 2nd Alarm, Box 3523 on June 9, 1974, an eight year old girl was rescued. She is shown being carried by Firefighter Jim Trainor of Truck Company No. 5. The child suffered smoke inhalation and second degree burns but has since recovered.

**CHIEF OF
DEPARTMENT
KEITH P. CALDEN**



CITY AND COUNTY OF SAN FRANCISCO
SAN FRANCISCO FIRE DEPARTMENT



OFFICE
CHIEF OF DEPARTMENT

260 GOLDEN GATE AVE.
SAN FRANCISCO, CA. 94102

September 3, 1974

Honorable President and
Members of the Fire Commission
San Francisco Fire Department
260 Golden Gate Avenue
San Francisco, California 94102

Gentlemen:

It is a pleasure to submit herewith the Annual Report of the San Francisco Fire Department for the Fiscal Year 1973-74. This report is forwarded in accordance with the provisions of Section 3.501 of the Charter of the City and County of San Francisco.

A narrative and statistical review is provided by a comprehensive summary of the department's activities during the past fiscal year. Basic accomplishments of each Division, Bureau, committee and program are shown. Included are the general details of plans that have been put into effect and the results of numerous cooperative efforts on the part of the personnel employed by the Fire Department. In this regard, personnel continued to sustain their reputation for efficiency and dedication to duty.

During the period reported, building fires decreased by 252 as compared to the previous fiscal year. At the same time, there were 13 fewer fire deaths. This downward trend may well be attributed to several factors. Illustrations are an aggressive fire prevention program coupled with a public education approach plus the courageous and outstanding services performed by our firefighters.

I wish to express my sincere thanks to your Honorable Commission, to the Mayor, to the Board of Supervisors and to other officials for their cooperation and assistance. Appreciation is also extended to public spirited citizens, civic organizations, the press, radio and television for their support and interest.

Respectfully,

Keith P. Calden
Chief of Department

ADMINISTRATION



CHIEF STAFF OFFICERS

SAN FRANCISCO FIRE DEPARTMENT

Specialized Auxiliary Service
Headquarters
260 Golden Gate Avenue

Bureau of Administration	Room 225
Andrew C. Casper - Secretary to Chief of Department	
Division of Fire Prevention and Investigation	Room 327
Emmet D. Condon - Assistant Chief of Department	
Division of Planning and Research	Room 210
Rene A. Gautier - Assistant Chief of Department	
Division of Public Education and Internal Control	Room 309
Frank P. Sangiacomo - Assistant Chief of Department	
Bureau of Assignments	Room 208
Anthony V. Brain - Battalion Chief	
Office of Emergency Services	Room 210
(Fire Reserve) Stephen B. Cronin - Battalion Chief	
(Fire Coordinator) Lawrence L. Paris - Battalion Chief	

Division of Training	2310 Folsom Street
Charles W. Carli - Assistant Chief of Department	

STAFF OFFICERS

Bureau of Equipment	909 Tennessee Street
Clayton B. Frazee - Captain	
Bureau of Communications	1003 Turk Street
Peter A. Ruiz - Captain	
Bureau of Community Relations	Headquarters - Room 309
Earl Gage - Director	

NON-UNIFORM

Secretary - Fire Commission	Room 204
Raymond G. Connors	
Bureau - Engineering & Water Supply	Room 219
Gilbert G. Bendix	
Physician - Department	Room 307
Victor P. Bonfilio, M.D.	
(Joseph P. Lavelle, M.D. - On Leave of Absence)	

PERSONNEL

Employments

The total number of authorized employments for the Fire Department totaled 1,833 for the fiscal year 1973-1974. This was an increase of eight (8) above 1972-1973. The total Fire Department authorized employments for 1973-1974 is detailed as follows:

<u>UNIFORMED FORCE</u>		<u>NON-UNIFORMED FORCE</u> <u>Headquarters Office</u>	
1	Chief of Department	3	Member, Fire Commission
1	Deputy Chief of Department	1	Secretary-Fire Commission
1	Secretary to Chief of Department	1	Physician (Part Time)
16	Assistant Chief of Department	1	Principal Accountant
45	Battalion Chief	1	Senior Payroll & Personnel Clerk
86	Captain	2	Payroll Clerk
228	Lieutenant	2	Senior Clerk Stenographer
58	Chief's Operator	1	Principal Clerk Stenographer
1287	Firemen	2	Senior Clerk Typist
3	Pilot-Fireboat	3	Clerk Typist
4	Marine Engineer-Fireboat	1	Accountant
2	Captain-Bur.Fire Prevention	1	Clerk Stenographer
4	Lieutenant-Bur.Fire Prevention	1	Fire Protection Engineer
31	Inspector-Bur.Fire Prevention	<hr/>	
1	Lieutenant-Bur.Fire Invest.	20	Total - Headquarters Office
7	Investigator-Bur.Fire Invest.	<u>Bur.Engineer & Water Supply</u>	
<hr/>		1	Supt. Bur. Water Supply
1775	Total - Uniform Force - 96.836%	1	Foreman-Bur. Water Supply
		1	Sub-Foreman-Bur.Water Supply
		2	Chief Stationary Engineer
		6	Stationary Engineer
		1	Stationary Engineer (Relief)
		8	Jr. Stationary Engineer
		1	Jr. Stationary Engineer (Relief)
		14	Utility Plumber
		3	General Laborer
		<hr/>	
		38	Total - Bur.Engineer & Water Supply
		58	Total - Non-Uniform - 3.164%

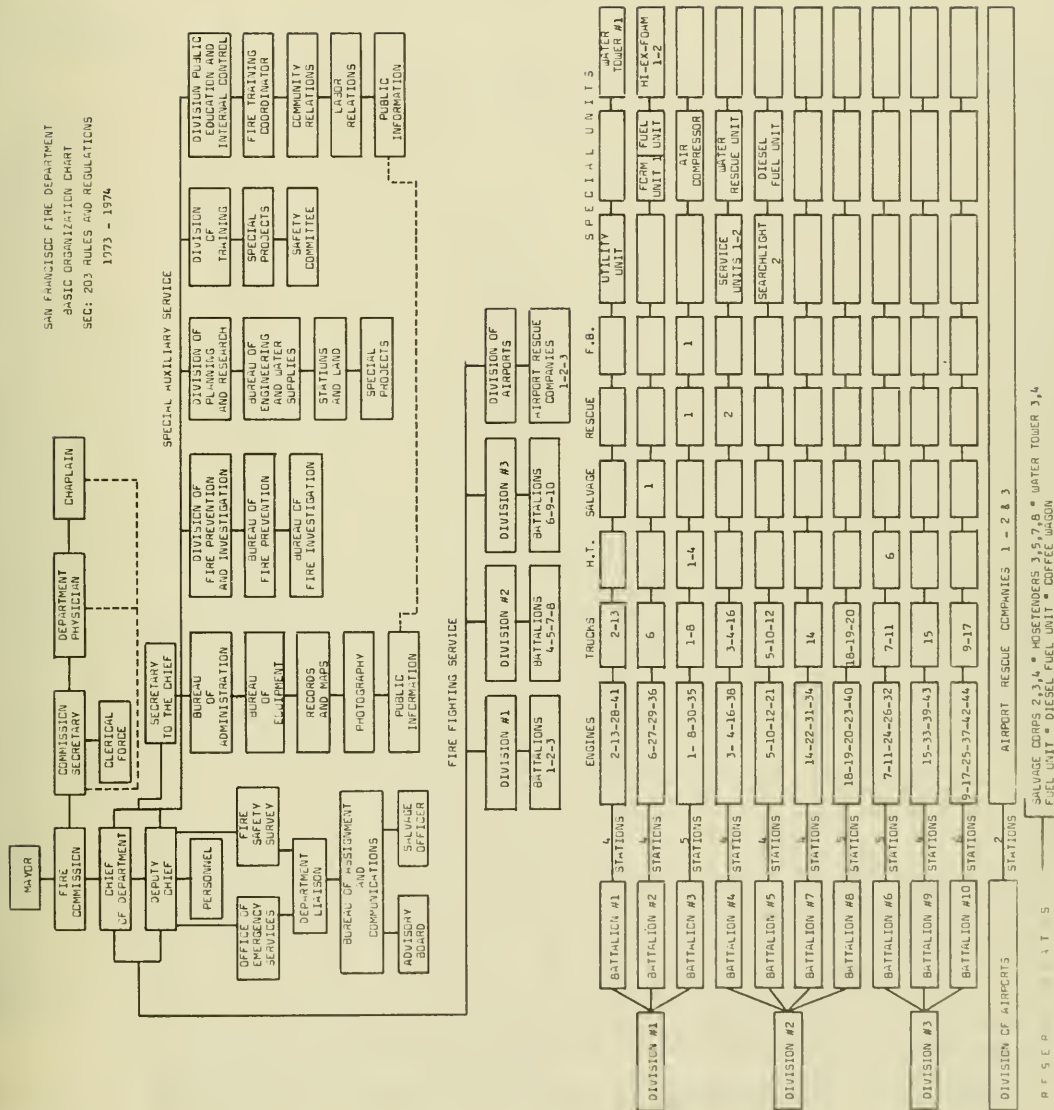
TOTAL EMPLOYMENTS

July 1, 1973

1,833

Specific Assignments of these employments are detailed on the authorized personnel assignment chart.

SAN FRANCISCO FIRE DEPARTMENT
BASIC ORGANIZATION CHART
SEC: 203 RULES AND REGULATIONS
1973 - 1974



	C.O. 140	O.C. 150	S.C.O. 155	A.C. H=50	B.C. H=40	CAPT. H=30	L.T. H=20	DPR. H=10	FRM. H=2	PILOT H=120	N-ENG. H=110	CH-T. H=32	L.T. H=22	L.T. H=24	TRSF. H=4	INV. H=5	TOTAL
IEP OF DEPARTMENT	1		1					3	1								5
PUTY CHIEF OF DEPARTMENT		1						3									4
OFFICE OF EMERGENCY SERVICE					2		1										3
CIVIL ASSEMBLY												1					1
INTER FRONT SECURITY													1				1
REAR OF ADMINISTRATION						1		1									2
REAR OF ASSIGNMENT							3										3
REAR OF COMMUNICATIONS					1		8		4								12
REAR OF EQUIPMENT						1			8								9
VISION OF TRAINING				1			3	1									5
VISION OF FIRE PREV. & INVEST.				1													1
REAR OF INVESTIGATION																	0
REAR OF FIRE PREVENTION																	0
VISION OF PLANNING & RESEARCH				1								1	3	1	30	7	34
REAR OF ENG. & WATER SUPPLY									7								7
W. PUBLIC CO. & INTERNAL CONTROL				1													1
	1	1	1	4	3	4	16	5	12			2	4	1	30	7	114

FIRE FIGHTING SERVICE

[illegible]

NON-UNIFORMED FORCE:

	FPE 5215	CS 1444	CCM 160	SFC 1540	PGL 1654	AEC 1650	SBS 1448	LIT 1474	CT 1474	PES 1450	LFG 1420	SPEC 1442	PHY 7320	USE 5209	PLMP STATIONS 7205 7336 7333	HYDRANT DEPARTMENT 7230 7363 7368 7514	
RE COMMISSIONERS OFFICE	1	1	3	1	1	1		1	1	1	2	1	1				14
TFFS OFFICE							1										4
BUREAU OF FIRE PREVENTION	1						1	1	1					1	2	7	30
BUREAU OF ENG. & WATER SUPPLY									1								1
VISION OF TRAINING	1	1	3	1	1	1	2	2	1	1	2	1	1	1	2	7	56

PERSONNEL

Mayor Joseph L. Alioto and the Board of Supervisors, at respective levels of authority, approved a total of eight additional positions plus one reclassification for the Fire Department during the fiscal year 1973-74. Eight became effective July 1, 1973 and included the following:

	<u>Classification</u>	<u>Source of Funding</u>
Two	H30 Captains	Airport Budget
One	H22 Lieutenant	Revenue Sharing
One	H 4 Inspector	Airport Budget
Three	H 4 Inspectors	Revenue Sharing
One	5215 Fire Protection Engineer	Revenue Sharing

The reclassification became available on February 7, 1974 with the creation of the Division of Public Education and Internal Control. This resulted in the abolition of one H30 Captain and the establishing of an additional H50 Assistant Chief's position. Battalion Chief Frank P. Sangiacomo was appointed to the rank of Assistant Chief by Chief of Department Keith P. Calden to head the newly formed Division. Funding for Assistant Chief Sangiacomo's promotion was attained by supplemental appropriation.

Rabbi Martin S. Weiner was appointed Chaplain, representing Department members of the Jewish faith, by the Fire Commission July 30, 1973. He replaced Rabbi Morris Goldstein who resigned.

A leave of absence was granted Doctor Joseph P. Lavelle, the Department Physician, commencing October 17, 1973. Doctor Victor P. Bonfilio was selected by the Fire Commission to serve during the interim period.

A charter amendment was approved by the electorate during the primary election, June 4, 1974, giving the Fire Commission the right to reorganize the department. Various stipulations are attached to this part of the amendment. Also included are provisions that give civil service tenure to the present incumbent Secretary to the Fire Commission and remove archaic Charter language.

After more than two years of litigation in Federal Court, the H2 Firemen's entry level list was allowed to be activated by judicial order remaining under jurisdiction of the Court. This permitted the probationary appointments of forty-eight firemen on January 21, 1974. Two more groups were also appointed at intervals before the close of the fiscal year. As of June 30, 1974, ninety-eight vacancies in the classification of H2 fireman existed. In addition, fourteen men in the same classification were on Lump Sum Sick Payment Leave not to be replaced until the expiration time of said sick leave.

FISCAL

Budget - Personnel Services

Under provisions of Section 8.405, City Charter, the salaries of the uniformed force of the Department are authorized by the Board of Supervisors. The salary range is based upon survey and certification by the Civil Service Commission of the highest paid firefighters and police officers in California cities of 100,000 or more population.

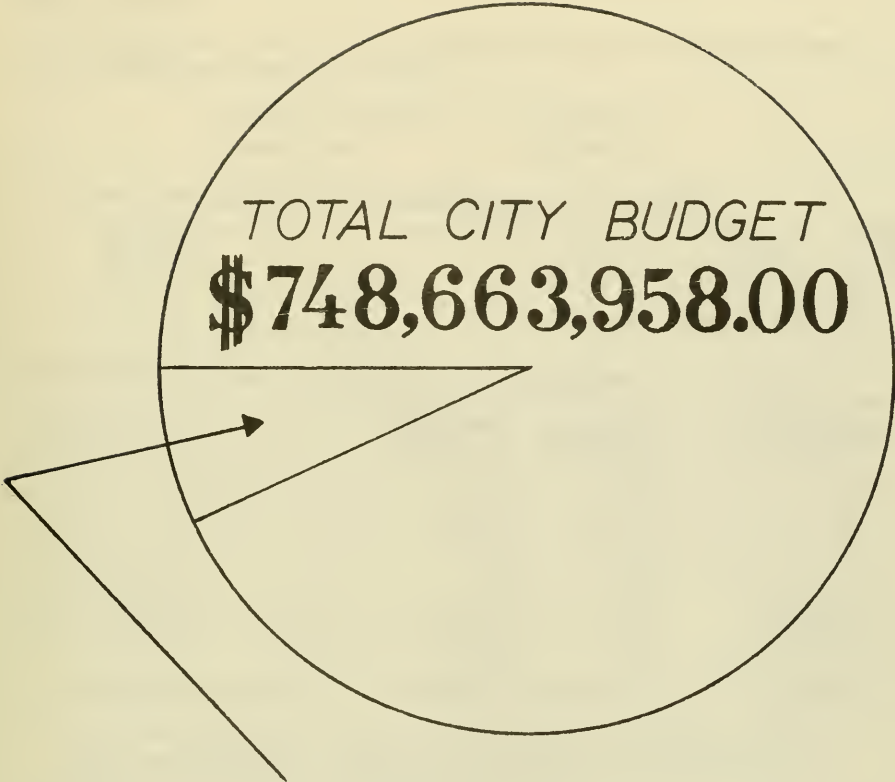
The required Charter Survey of February 1973, reported an increment of near 1½ per cent for San Francisco firemen as compared with the 1972-1973 salary range. The results of this survey were effective July 1, 1973. The Charter also calls for a second survey in August of each year. The second survey produced an additional increase of almost 6 per cent, retro-active to July 1, 1973, for a total salary adjustment of approximately 7 per cent.

Personnel

1973-74 - Budget Estimate	\$30,885,071
1973-74 - Budget Expended*	\$30,843,631

(*) Like Work - Like Pay (Differential Pay-Uniformed Force)

City Ordinance as of July 1, 1967, requires compensation for members of the Fire Department temporarily assigned to the next higher rank than that in which they are permanently assigned for more than one 24-hour tour. This occurs when necessary to assign a member to a higher rank due to there being no permanent relief member of higher rank available for said assignment. This requirement will be modified beginning with next fiscal year to provide such compensation at the start of the first full watch worked. A budget allowance of \$52,000 was granted in this account for the fiscal year 1971-72. Expenditure for that year showed \$38,698. The 1972-73 budget expenditure was \$49,528; \$9,528 of these funds came by way of supplemental appropriation and transfer. Like Work - Like Pay for 1973-74 originally totaled \$50,581.00. Later it became necessary to request from transfers of funds and supplemental appropriations an additional \$12,370.94 for a total expenditure of \$62,951.94.



TOTAL CITY BUDGET
\$748,663,958.00

FIRE DEPARTMENT
BUDGET

\$46,208,031.00

FIRE DEPARTMENT
PERCENTAGE OF
TOTAL CITY BUDGET

6.17%

Budget - Data

During Fiscal Year 1973-1974, budget allowances and expenditures for the Fire Department were as follows:

Budget Allowances	-	\$46,208,031
Expenditures	-	\$45,366,371

Expenditure categories and percentages are as follows:

Personal services and related fringe benefits.	\$43,985,059	96.96%
Equipment	446,673	.98%
Other	<u>934,639</u>	<u>2.06%</u>

Total.. \$45,366,371 100.0%

Budget Recapitulation of Allowances and Expenditures:

<u>Description</u>	<u>Allowance</u>	<u>Expended</u>	<u>Expenditures (over)/under</u>
Personnel Salary & Wages.....	\$30,885,071	\$30,843,631	\$ 41,440
Contractual Services.....	711,286	711,286	- 0 -
Local Fares - Airport.....	826	837	(11)
Materials & Supplies.....	197,976	197,976	- 0 -
Equipment.....	447,031	446,673	358
Fixed Charges.....	211	206	5
Meritorious Awards.....	2,600	2,602	(2)
Fringe Benefits	13,942,520	13,141,428	801,092
Services of other departments.	<u>20,510</u>	<u>21,732</u>	<u>(1,222)</u>
 * <u>Total Budget 1973-1974</u>	 \$46,208,031	 \$45,366,371	 \$ 841,660

* Note - Federal Revenue Sharing of \$2,675,258 included in total which was expended for salaries, \$2,588,762; materials and supplies, \$5,192; and for equipment, \$81,304.

Department Revenues:

Estimated revenues and amounts collected during fiscal year 1973-1974 were as follows:

<u>Account</u>	<u>Description</u>	<u>Estimated</u>	<u>Collected</u>
7166	Posting Fees	\$ 2,000	\$ 1,500
7167	Original Filing Fees	3,000	2,705
7187	Electricity Resales (<u>Note 1</u>)	36,000	14,647
7188	Minor Damages (<u>Note 2</u>)	13,500	13,534
7189	Miscellaneous Service (Copy Service Charges)	2,500	3,674
7192	Roof and Salvage Covers	<u>6,400</u>	<u>5,275</u>
	<u>Totals</u> (<u>Note 3</u>)	\$ 63,400	\$ 41,334

Note 1. Electricity resale to Fort Mason was discontinued in November 1973.

Note 2. \$9,549 of collections were allowed the Fire Department for repairs of damaged hydrants - as per Section 11.7 of the Annual Appropriation Ordinance

Note 3. Total collected includes amounts collected by the Fire Department and other departments.

S.F.F.D.

Salary Range

Uniformed Force

July 1, 1973-74

Chief of Department	\$ 1,559.08	bi-weekly
Deputy Chief of Department	1,311.69	"
Assistant Chief of Department	1,064.77	"
Secretary to Chief of Department	1,032.46	"
Battalion Chief	921.69	"
Captain	768.92	"
Lieutenant	672.92	"
Chief's Operator	630.92	"
Captain, Bureau of Fire Prevention & Investigation	869.08	"
Lieutenant, Bureau of Fire Prevention & Public Safety	760.62	"
Lieutenant, Bureau of Fire Invest- igation	760.62	"
Inspector, Bureau of Fire Prevention & Public Safety	694.15	"
Investigator, Bureau of Fire Invest- igation	694.15	"
Pilot & Marine Engineer, Fireboat	768.92	"
Fireman - 1st year	555.69	"
Fireman - 2nd year	562.62	"
Fireman - 3rd year	571.85	"
Fireman - 4th year	578.77	"

Non - Uniformed Force

Fire Commissioner	\$ 100.00	per month
Secretary - Fire Commission	682.00	bi-weekly
Physician (Part Time)	859.63	bi-weekly
Superintendent - Water Supply System	983.00	bi-weekly
Foreman - Water Supply System	12.28	per hour
Sub-foreman - Water Supply System	11.80	per hour
Chief Stationary Engineer	9.35	per hour
Stationary Engineer	7.56	per hour
Junior Stationary Engineer	6.13	per hour
Utility Plumber	10.87	per hour
Laborer	6.37	per hour
Accountant	419.00	bi-weekly
Principal Accountant	561.00	bi-weekly
Clerk Typist	326.00	bi-weekly
Senior Clerk Typist	359.00	bi-weekly
Senior Clerk Stenographer	368.00	bi-weekly
Senior Payroll and Personnel Clerk	405.00	bi-weekly
Payroll and Personnel Clerk	350.00	bi-weekly
Principal Clerk Stenographer	405.00	bi-weekly



BUREAU OF ASSIGNMENTS

BUREAU OF ASSIGNMENTS AND
COMMUNICATIONS

BUREAU OF ASSIGNMENTS

The authority for constantly maintaining adequate personnel to insure the most efficient operation of Department apparatus and equipment is delegated to the Battalion Chief and officers assigned to this Bureau by the Chief of Department. To accomplish this objective requires a system of planning and procedures to which this Bureau adheres.

The following is a brief outline of some of the more exacting operations performed:

1. Compilation of Division Strength Reports
2. Estimation of manpower availability on a three (3) day forecast
3. Working out-of-classification assignments
4. Daily membership reports
5. Allocation of vacation periods

BUREAU OF COMMUNICATIONS

In July, 1971, the Bureau of Communications was established as a sub-bureau of the Bureau of Assignments and Communications. A captain is assigned to the Bureau under the functional supervision of the Battalion Chief, Bureau of Assignments and Communications.

The functions of the Bureau of Communications are divided into three (3) operations:

Dispatch Center - Dispatch Officers - Two lieutenants on duty per shift.

Their primary functions are to receive and evaluate alarms and other emergency calls and for dispatching of men and proper type of apparatus and equipment to necessary emergencies.

Communication Center - Radio Operators - Three radio operators per shift, under direction of the Dispatch Officers, perform all radio communications with the fire-fighting services in the field and with other necessary emergency services. A mobile communications unit, manned by radio personnel respond from this center to greater alarms, to serve as a field command post. During fiscal year 1973-74, Communication Unit #1 responded to 89 greater alarms for 157 hours and 30 minutes of fire service.

BUREAU OF COMMUNICATIONS

Information Center

This center maintains vital and necessary current information on: locations of special keys, maps, records, special tools and equipment for use in field operation in conjunction with a library on hazardous materials and dangerous chemicals encountered in the firefighting operations.

SUMMARY

The Bureaus of Assignments and Communications are required to expedite all Department matters channeled to them by proper authority. Dissemination of information, with strict adherence to Department policy, places these Bureaus in the midst of administrative authority and general field operations. The Bureaus of Assignments and Communications are motivated not only by intrabureau goals, but also by the total Department objectives necessary for high standards of performance.

COMMAND & CONTROL SYSTEM

The Department is now five months into a twenty-four month contract for installation of the Command and Control System.

To date, one-half of the dual set of computers has been delivered to the City and has been factory tested and approved. Software development and programming are well under way. Detail review design documents and drawings have been submitted by the contractor, Systems Science Development Corporation Inc., for the Wall Display and Audio Dispatch System and fire station equipment.

A survey of all stations has been completed to determine installation requirements. Input formats and procedures and output reports have been agreed upon. The installation schedule has been maintained so far and no delays are foreseen at this time.

BUREAU OF EQUIPMENT

The Bureau of Equipment is staffed with one officer and ten firemen, and is responsible for maintenance, lubrication and inspection of all apparatus. The Bureau is also responsible for procedures pertaining to the care and operation of all apparatus and equipment in the Fire Department.

BUREAU OF EQUIPMENT

During the fiscal year 1973-1974, the Bureau received more than 15,000 requests for equipment repairs, oxygen supplies, extinguisher exchanges and other services. Approximately 75% of these required additional calls to other city departments for processing.

During the past year, the Bureau has expanded its Driver Evaluation and Operational program. In order to keep abreast with improvements of Fire Department apparatus, a more sophisticated background is required prior to being certified for emergency response driving.

Aside from maintaining records on all apparatus and hose, the Bureau compiles and reports on all apparatus in and out of the Central Shops, Annual pump tests hose complement and apparatus status.

The Bureau participates in high pressure tests, assists the Division of Training and the Division of Special Services on special projects; evaluates suggestions submitted by the Advisory Board; attends Oral Boards and pump operator evaluation tests for neighboring communities.

During week-ends and hours when the Central Shops are closed, the members of the Bureau handle emergency repairs to apparatus and equipment.

The Bureau responds to all greater alarms and accidents involving our equipment, and provides emergency tow service for other city departments when requested.

Apparatus Status

As of June 30, 1974, the following equipment was in service and in reserve in the San Francisco Fire Department.

	<u>In Service</u>	<u>In Reserve</u>
1,000 GPM Combination Engine and Hose Wagon.....	0	4
1,000 GPM Combination pumpers, Triple Combo.....	11	17
1,000 GPM Combination pumpers, Triple, (Diesel)...	0	2
1,000 GPM Combination pumpers, Triple, (C.D.).....	0	1
1,250 GPM Combination pumpers, Triple, (Diesel)...	18	0
1,250 GPM Combination pumpers, Triple.....	12	0
1,500 GPM Combination pumpers, Triple, (Diesel)...	3	0
50 GPM Combination Mini pumpers.....	4	0
Aerial Ladders - 100 foot - (Diesel).....	11	0
Aerial Ladders - 100 foot.....	8	2
Aerial Ladders - 92 foot - (Diesel).....	0	1
Aerial Ladders - 85 foot (Diesel).....	1	0
Air Compressor.....	1	0
Automobiles - Chiefs'.....	15	6
Automobiles - Staff	32	0

Apparatus Status

	<u>In Service</u>	<u>In Reserve</u>
Mini Buses	3	0
City Service Trucks.....	0	5
Coffee Unit.....	0	1
FireBoat.....	1	0
Foam Unit.....	0	1
Diesel Fuel Unit.....	0	1
Gasoline Fuel Unit.....	0	1
Hi-Expansion Foam Units.....	0	3
Hose Tenders.....	3	3
Hydrant Trucks.....	8	0
Hydrant Trucks, (Valve Units).....	14	0
Pipe Dolly, (C.D.).....	0	1
Pipe Trailer Unit, (C.D.).....	0	1
Portable Compressor, 2-Wheel Unit Trailer.....	1	0
Rescue Trucks.....	2	1
Salvage Trucks.....	1	3
Utility Unit.....	0	1
Sand Truck.....	0	1
Searchlight Engine.....	1	0
Service Squads.....	2	0
Tow Truck	1	0
Tractors, Aerial..(Relief).....	0	2
Trucks, Auxiliary, -500 GPM.....	0	17
Trucks, Delivery.....	5	0
Trailers, Auxiliary - 500 GPM.....	0	3
Valve Unit.....	1	0
Water Tower, Large.....	1	0
Water Tower, Small.....	0	2
Water Rescue Unit.....	0	1

Hose Complement

Contained in the following chart is the hose complement of the department, excluding short utility lengths, soft suctions, hydrant jumper lengths, circulators, multi-versal and house lengths. The maintaining of this record is the responsibility of the Bureau of Equipment.

S.F.F.D. Hose Complement - June 30, 1974

<u>Age</u>	<u>3"</u>	<u>2-3/4"</u>	<u>1½"</u>	<u>1"</u>
10 yrs. or Less	100%	67%	97%	62%
11 yrs. to 15 yrs.	0%	31%	03%	31%
Over 15 yrs.	0%	02%	0%	07%
Total.	100%	100%	100%	100%
Total Footage	27,950 ft.	141,400 ft.	65,150 ft.	27,300 ft.
Total footage in Hose Complement				
261,800 ft.				

OFFICE OF EMERGENCY SERVICES

Fire Department personnel assigned to this office consists of two Battalion Chiefs and one Lieutenant . One Battalion Chief, assisted by the Lieutenant, serves as Fire Coordinator. The second Battalion Chief is in charge of the Fire Reserve. His duties include training the Reserve and directing them when working at greater alarms.

Emergency Services Fire Coordinator

The duties of the Fire Coordinator consist of the following:

1. Attends Disaster Council meetings, Emergency Planning meetings and workshops.
2. Meets with other emergency services of the City of San Francisco when and as necessary to establish and assist in coordination operations.
3. Provides planning, public education and orientation for building owners and managers in development of emergency operations and evacuation plans, tailored to individual occupancies, with respect to life safety and survival in office buildings, industrial buildings, hospitals, hotels, schools, etc., for such disasters as nuclear attack, fire and earthquake.
4. Makes inspections and insures availability of shelter supplies in shelter areas. At the present time there are over fourteen hundred (1,400) licensed shelters providing over four million (4,000,000) shelter spaces in the City of San Francisco.
5. Maintains and inspects radiological instruments located in public shelters and replaces with recalibrated instruments when necessary.

The following is a breakdown of the principal services performed by the Fire Coordinator with the Emergency Services during the fiscal year 1973-74:

1. Shelter visits, inspection and exchange of Radef Kits.....	347
2. Number of people contacted.....	878
3. People trained in use of Radiological Survey instruments...	300
4. Meetings with management of various types of buildings, plants and businesses regarding building evacuation plans, training and orientation for such disasters as nuclear attack, fire and earthquake.....	77

Emergency Services Fire Coordinator (Cont.)

5. Talks - Nuclear attack, Fire safety, Earthquake and Civil Defense procedures (Employees and occupants of buildings).. 80
6. Number of people attending and trained under Item #5..... 3,628
7. Film showings..... 88

Fire Reserve

The Fire Reserve is a unit of the San Francisco Emergency Services organized to augment the San Francisco Fire Department in times of a natural disaster or hostile military action. It is supervised by a Battalion Chief of the Fire Department.

The members of the Fire Reserve are a group of dedicated citizens whose services are volunteered to the City and County of San Francisco without remuneration.

These men are a group of specially trained citizens. Training exercises are held weekly throughout the year. The Reserve also receives on the job training by observing and assisting the Fire Department at multiple alarm fires.

In the event of hostile military action, or of a natural disaster of a long duration, the Fire Reserve will be greatly expanded to assist in the safeguarding of the lives and property of our citizens. The present membership will be the nucleus of any required expansion.

Membership of the Fire Reserve, June 30, 1974: 66

<u>Activities</u>		<u>Greater Alarms Responded to</u>	
Training Exercises....	55	Total.....	22
Total Attendance.....	1,760	Total Attendance...	262
Man Hours - Training..	4,230	Man Hours - Work...	708
Pumpers Used.....	104		

San Francisco Fire Department Pioneer Memorial Museum

The San Francisco Fire Department Pioneer Memorial Museum was officially dedicated on October 5, 1964. It is located adjacent to the quarters of Station 10 at 655 Presidio Avenue and is open to the public daily from 1300 to 1700 hours.

Pioneer Memorial Museum (Cont.)

During the period from July 1, 1973 to June 30, 1974, - 5,120 guests visited the museum.

Groups that have visited the museum during the year include: Boy Scouts, Girl Scouts, Jewish Community Center, recreation centers, representatives from companies and corporations, senior citizens, California Historical Society, guests from other states and foreign countries and school children have made regular visits in connection with their studies.

Photo Unit No. 1

Photography in our modern day department is being utilized more than at any other time in history. Fire prevention, fire investigation, training, public relations and administration activities rely upon the effective photo unit services.

Our city provides an extraordinary opportunity for obtaining valuable fire ground photography of situations encountered by a large metropolitan fire department. As a result, training activities have vastly improved in recent years, with corresponding improvements in all segments of our department. Photos taken by the San Francisco Fire Department Photo Unit appeared in local papers, television stations and national publications. Fire slide and fire prevention lectures were given to local service clubs and organizations throughout the Bay Area. Many special requests for San Francisco Fire Department photos were filled and photography from this unit was used by the Mayor's office and other city administrative organizations. The Photo Unit traveled 1,008 miles in the fiscal year and accumulated 151 hours service at fires and other emergencies.

A brief summary of the Photo Units activity during the fiscal year is recorded as follows:

Responses

First Alarms.....	103
Second Alarms.....	34
Third Alarms.....	13
Fourth Alarms.....	1
Fifth Alarms.....	0
Still Alarms.....	106
Rescue Operations.....	<u>31</u>
Total Alarms.....	288

COMMITTEE REPORTS

Fire Department Advisory Board

The San Francisco Fire Department Advisory Board is now in its eighteenth year of service and continues to convey valuable suggestions from members in the field to the Chief of Department. The department has utilized the Board to help prevent stagnation by documenting and researching each item received by it. During the past fiscal year the board received 43 suggestions, of these, 12 were accepted, 7 were rejected, 4 are still pending decision, 13 were tabled by the Board and 7 are being researched.

Vehicular Accident Committee

Despite the continuous effort of the Vehicular Accident Committee, and other associated and related Fire Department members, the preventable vehicular accident rate continues to remain at an unacceptable high level. We believe that the officer in charge of any Department vehicle should take more responsibility in the proper training of his drivers, and insist that they follow all rules and regulations relative to safe driving, as well as, the practices and principles as outlined in the driver's manual.

For the fiscal year 1973-74, there were 134 vehicle accidents and over 65 per cent were deemed preventable. This is up several percentage points over the preventable accidents occurring in the fiscal year of 1972-73.

Although the accident rate fluctuates somewhat from year to year, there is no predictable coefficient of correlation between the number of alarms and the total number of preventable vehicular accidents.

An analysis of the accidents during the fiscal year 1973-74 again reveals that the cause of greatest concern from the safety standpoint are the accidents which occur while proceeding through intersections, stop-and-go signals and arterial controlled intersections when Department vehicles are responding to emergencies.

Full implementation of a formal driver training course by the Bureau of Equipment in conjunction with the Division of Training has been delayed because of the large influx of probationary personnel into the Department. The responsibility for training and retraining of drivers now rests with Company officers, although the Bureau of Equipment now conducts the final examination for department personnel upon written request from the Company officer. Personnel found qualified by a representative of the Bureau of Equipment are issued a "Driver Certification" form which indicates those areas in which the tested member has qualified.

Safety Committee

The Safety Committee consists of the Chief of the Division of Training who serves as Chairman, a secretary and ten captains as staff members.

Staff members were selected so that in each firefighting division there will always be a member on duty. This facilitates immediate response of a Safety Committee member to injuries and unsafe conditions when his presence is requested.

The Safety Committee believes it can give better service to the Fire Department by having incidents investigated immediately after occurrence.

During the 1973-74 Fiscal Year there were 758 Lost Work Day injuries reported. This averaged out to 63.16 Lost Work Day injuries per month. Of the total of 758 injuries which occurred, 696 returned to work as of June 30, 1974 with a total of 9,979 Lost Work Days. Sixty-two (62) had not returned to work as of June 30, 1974 and these Lost Work Days have not been counted in the total Lost Work Days.

A breakdown according to Company classification indicates the following:

1. Engine Companies had 433 disability injuries with a total of 5,439 Lost Work Days.
2. Truck Companies had 197 disability injuries with a total of 2,691 Lost Work Days.
3. Rescue Squads had 24 disability injuries with a total of 276 Lost Work Days.
4. Airport Companies had 19 disability injuries with a total of 372 Lost Work Days.

There were three (3) deaths due to injuries received on duty, which the Fire Department is charged at the rate of 5,000 Lost Work Days for each death. One death was due to a firefighter being thrown off the apparatus.

<u>Month</u>	<u>Total Injuries</u>	<u>Men not returned to duty</u>	<u>Total Lost Work Days</u>
July - 1973	75	0	1,450
August	60	2	996
September	61	2	861
October	60	3	835
November	37	0	593
December	45	3	585

Safety Committee

<u>Month</u>	<u>Total Injuries</u>	<u>Men not returned to duty</u>	<u>Total Lost Work Days</u>
January - 1974.....	74	4	985
February.....	53	2	799
March.....	84	4	1,166
April.....	70	4	843
May.....	82	14	672
June.....	<u>57</u>	<u>24</u>	<u>194</u>
Totals.....	758	62	9,979

Occupational Safety and Health Act Committee

The Occupational Safety and Health Act (O.S.H.A.) was signed into Federal law on December 29, 1970. It's purpose is to improve job safety and health by reducing injuries, illnesses and deaths connected with working conditions. This is accomplished by strong enforcement through inspections, investigations and the issuing of citations, including penalties by Federal and State inspectors. Citations may be issued to employers and also employee supervisors.

In order to prepare for the implementation of O.S.H.A. on local government level when its enforcement became the responsibility of the State of California in early 1974, the Chief of Department designated a committee in mid-1971 to study the effect of the Act's regulations on Fire Department operations. This committee, headed by an Assistant Chief, has made many constructive recommendations that will assist in complying. Every section and item from protective clothing, helmets, breathing equipment to ladders has been reviewed and has been subject to a report.

A second part of its study concerned the physical hazards found on apparatus and in stations or other department locations of employment. A program of painting by designated color to station properties to comply with O.S.H.A.'s physical hazards has begun as of the first part of this year.

Frequent meetings have been held the past fiscal year with the California Industrial Relations Department, Division of Industrial Safety (CAL. OSHA)

Radio Committee

From funds made available during the fiscal year 1973-74, the following radio equipment was purchased:

1. Fifty-two (52) mobile radios were purchased from General Electric Company. These radios were installed in new equipment and are in the process of replacing obsolete mobile radios in our firefighting apparatus.
2. Fourteen (14) Johnson portable U.H.F. radios of 4-watt power were purchased to provide better communication in hi-rise buildings. These radios have been assigned to the Chief of Department, Deputy Chief, Assistant Chiefs and Battalion Chiefs of Division No. 1.
3. One portable radio was purchased and assigned to Truck Company No. 14 for use in communicating with the Coast Guard helicopter in cliff rescues along the Ocean Beach.
4. Also an additional frequency was added to the Fireboat radio for communication with the Coast Guard.
5. Station receivers were relocated to new fire houses - Station 9 and Engine Company No. 33.

High-Rise Program Committee

This is the second year of our High-Rise Inspection Program. It calls for inspections of all high-rise buildings and target hazards by Battalion Chiefs in their respective districts.

These inspections in most cases are followed by a conference with the building management. Plans are developed during these conferences so that building management and occupants will become aware of the actions they should take and their responsibilities during emergencies.

Most of the high-rise buildings are located in the downtown area or high value district. Target hazards can be found in any area of the city.

A brief listing by Divisions will show what has been done during the last fiscal year.

	<u>High-Rise inspections</u>	<u>Target Hazard inspections</u>	<u>Conferences held</u>
Division No. 1	54	29	43
Division No. 2	41	49	26
Division No. 3	<u>10</u>	<u>40</u>	<u>10</u>
Total	105	118	79

Bart Committee

Rapid transit came to San Francisco on November 3, 1973. On this date local service was inaugurated between the Montgomery Street Station and the Daly City Station. Transbay service is expected to begin during the month of September 1974.

All fire safety and communication equipment was ready long before the beginning of service with the exception of the emergency vehicles that will be stationed underground. Problems at the manufacturer's level delayed delivery but it is anticipated that all will be in service prior to the beginning of trans-bay service. One temporary emergency vehicle is stationed at the Montgomery Street Station in the interim.

Bay Area Rapid Transit officials have worked closely with the San Francisco Fire Department in an attempt to prepare for any emergency that might arise. To date there have been no major incidents.

St. Francis Hook and Ladder Company Committee

For the first time since 1866, The San Francisco Fire Department, represented by St. Francis Hook and Ladder Company No. 1, participated in a Firemen's Muster. At the historic Mother Lode Muster at Columbia, California in August of 1973, the Company competed against fifty-one other departments and received the "Best Overall Group" award.

While the Hook and Ladder Company competes in men's and women's hose cart races, bucket brigades, hand pumping contests and motorized hose lead events; it is the ladder evolutions performed by the Company that have added a new dimension to musters and parades. The highlight being when the St. Francis Company presents its trade-mark, the auditorium raise of the quarter ton, wooden, sixty-five foot extension ladder by six men. After the ladder is perpendicular, a member climbs to the very top and places the American Flag at the apex.

The Company has been enthusiastically received in San Francisco as part of the Filipino-American, St. Patricks and Columbus Day parades. Over 400,000 persons who lined parade routes witnessed members of the Company colorfully dressed in old-style uniforms, cartwheeling twenty-four foot ladders and vertically climbing them.

In addition to performing for many charitable affairs sponsored by the Fire League Athletic and Musical Events, Shrine Hospital, Police Activities League and Fire Department Toy Detail, the Company has worked closely with the Pioneer Fire Memorial Museum. Professional assistance was enlisted from the San Francisco Public Library and the De Young Museum for this endeavor.

Physical Fitness Program Committee

A physical fitness and weight control program was implemented on June 30, 1971.

During the fiscal year 1972-1973, all members of the Fire Department were checked for height and weight by the Department physician.

An exercise program consisting of two parts - (1) Warm up - (2) Conditioning (developmental) exercises has become part of a regular daily routine in the Fire stations.

In conjunction with this program, a year around supervised inter-department sports program involving softball, basketball, touch-football, volleyball and tennis supplements the fitness program.

On April 23, 1973, a voluntary program was offered in the Martial Arts (Karate, Kempo, etc.) by qualified members in the department.

Firemen's Olympics Committee

The first California Firemen's Summer Olympics was hosted by the San Francisco Fire Department in 1972. Approximately five hundred firefighters from various cities and counties participated in sixteen sports events. San Francisco finished first in total medals.

Last summer, more than nine hundred and forty competed in Los Angeles. San Francisco placed third behind Los Angeles County and Los Angeles City. However, the cycling and softball state championships were won by San Francisco teams.

During the Third Annual Firemen's Summer Olympics, held June 19 to 23, 1974 and hosted by the Oakland Fire Department, San Francisco captured first place in total medals. Los Angeles County placed second, Los Angeles City in third place with Oakland in fourth position. At these Olympics, approximately eleven hundred firefighters from throughout the State competed with San Francisco also taking team titles in softball and swimming.

From the beginning the concept underlining the Firemen's Olympics has been physical conditioning of the finest degree for the firefighters participating. With this in mind, the fifteen members of the state-wide Board of Directors sponsor both a summer and winter Olympics. The winter event is a joint venture with the Police and Sheriff's Departments of California. The six San Francisco firefighters on the Board of Directors have an important role in guiding the ever growing Olympics for both the summer and winter programs.

MISCELLANEOUS

During the fiscal year 1973-74, one hundred and twenty (120) letters of commendation were received in the office of the Chief of Department relative to Department action or various emergencies. All commendations were recorded through the office of the Fire Commission by entry on Journals of Proceedings. Copies of these proceedings are sent to each station.

Contributions to the amount of \$677.00 were received at the office of the Chief of Department for deposit to the Widows and Orphans Aid Association of the fire department. These contributions were duly recorded through the office of the Fire Commission and were given to the Secretary-Treasurer of the Association for deposit and recordation.

PLANNING AND RESEARCH



ENGINE CO. 33

DIVISION OF PLANNING AND RESEARCH

In its role as property manager for the Department and administrator of the fire station building program, the Division reports on fiscal year 1973-74 activities as follows:

1. Newly constructed quarters for Engine Company No. 9, Truck Company No. 9, were activated on February 4, 1974. Battalion No. 10 headquarters was transferred from Station No. 42 to the new Station No. 9 and Battalion district boundaries were realigned, and units reassigned accordingly.
2. Station No. 33, also reconstructed at a new location (8 Capitol Avenue), was occupied on May 11, 1974. With this transfer, there passed into department annals the last active fire station constructed in the last Century. On the grounds of this station, an enclosed hose storage house has been erected, capable of storing more than 20,000 feet of fire hose.
3. On March 11, 1974, Engine Company No. 3 and Truck Company No. 3 vacated their former station to permit the razing of the old structure and reconstruction on site.
4. In May of 1974, transfer of title to Station No. 13 was made to the Embarcadero Center Corporation, in exchange for funds to purchase the property at south-east Sansome and Washington streets and build a comparable fire station thereon. The Perini Corporation was awarded the construction contract in the amount of \$1,022,000.
5. Station No. 4 is the last remaining station programmed under the 1964 Bond Issue for Fire Station Construction; because of escalating construction costs it cannot be razed and rebuilt but will be remodeled to the extent permitted by available funds. A structural survey has been authorized to determine the necessary work required by State regulations that must be performed as part of the program.

Station Maintenance

The Division receives and processes requests for general station upkeep and maintenance and receives as-needed emergency repair requests; of these latter, 1,406 requests were processed in the covered year, an eleven (11) per cent increase over the previous year.

BUREAU OF ENGINEERING AND WATER SUPPLY

This Bureau, under the direction of a Senior Mechanical Engineer, is responsible for the engineering and maintenance of the Auxiliary Water Supply System (High Pressure System) and the maintenance of the hydrants connected to the domestic water supply system.

During the past year, due to additions to the Auxiliary Water Supply System and changes in the City streets pattern, four new high pressure hydrants were installed and thirty-seven were relocated. Currently, there are 1,383 high pressure hydrants.

During this same period, twenty-seven low pressure hydrants have been installed, eleven permanently removed and fifty-five relocated. There are now 7,694 Fire Department hydrants and 208 private hydrants in service on the domestic supply.

There are 150 cisterns located throughout the City for emergency water supply; the majority of the cisterns contain 75,000 gallons each and are kept filled by the Bureau personnel.

Dry standpipes on buildings are tested by the Bureau before acceptance and are periodically serviced. In fiscal year 1973-74, forty-three (43) new standpipes were placed in service, three permanently removed and eleven altered. Records show 2,826 such standpipes in service.

The Bureau utilizes Electronic Data Processing to improve its records on hydrant and standpipe servicing in line with the standards established by the Insurance Service Offices. These records reveal a deficiency in frequency of such servicing due, in large part, to inadequate manpower, antiquated equipment and diversion of manpower, due to BART, Redevelopment and Market Street Beautification work.

A contract has been awarded for the conversion of Pumping Station No. 1 from steam to diesel operation. This is part of the work authorized under the November, 1971, Bond Issue. Pumping Station No. 2 will also be converted when the engineering specifications are completed.

FIRE PREVENTION AND INVESTIGATION



DIVISION OF FIRE PREVENTION AND INVESTIGATION

During the last year building fires decreased by 252, and there were 13 fewer fire deaths than the previous year.

However, there was an increase in the number of false alarms (+670) and the total number of alarms (+360).

The third fire prevention training program, sponsored by the Community College District, has been successfully completed by all members of the Fire Prevention Bureau. An additional training course has been developed which will provide advanced information on industrial fire protection and processing systems.

A federal grant has been approved by the California Criminal Justice Council, which will provide funds for implementation of an Arson Information Retrieval System. This system will create a computerized recordation system containing relevant records on fire investigations, modus operandi of suspects and building historical files. The system will also have cross ties into local, state and federal criminal information systems.

A second application for a federal grant was submitted in May of 1974. This grant will provide funds for training and developing improved evidence collection and analysis procedures. If approved, the grant will complement the program already underway and should provide the San Francisco Fire Department with one of the most advanced fire investigation units in the nation.

A Commercial and Industrial Inspection Survey of the 21,600 business occupancies in San Francisco is now approximately 60 per cent completed. The purpose of the survey is to classify the occupancies as to degree of hazard, as well as to identify and locate hazardous storage and hazardous processes. This information will ultimately be recorded in the Command and Control Computer for immediate retrieval during fire emergencies. The Commercial and Industrial Inspection Survey will also form the basis for a complete building history file on each occupancy which will be updated as routine inspections are made by either fire suppression or fire prevention personnel.

During the year all members of the Bureau of Fire Investigation completed an approved Arrest and Firearms Course in order to maintain their peace officer status as required by Section 832 of the California Penal Code.

BUREAU OF FIRE PREVENTION

The operations of the Bureau of Fire Prevention for the fiscal year 1973-74 are reported in statistical form as follows:

Inspections and Corrections:

(1) Total Number First Inspections Made	19,073
(2) Total Number of Inspections	31,946
(3) Total Number of Corrections Obtained	22,972

Permit Processing:

(1) Fire Department Permits	365
(2) Building Permits	
(a) Alteration Plans Reviewed at Bureau of Building Inspection	867
(b) New Construction Reviewed at Bureau of Building Inspection	315
(c) New Construction and Alterations Reviewed at Bureau of Fire Prevention	1,535
(3) Occupancy Permits	1,608

Miscellaneous Reports and Communications:

(1) Investigation and Abatement Violations Received from Battalion Chiefs	707
(2) Notices of Violations of State and Local Safety Codes Issued	31
(3) Schools Visited	192
(a) Lectures Given	130
(b) Students Attending	20,574

PRINCIPAL BUILDING OCCUPANCIES INSPECTED AND PRINCIPAL BUILDING OCCUPANCIES IN WHICH FIRES OCCURRED.

	New <u>Insp.</u>	Re- <u>Insp.</u>	Total <u>Insp.</u>	<u>FIRES</u>
Theatres	1,107	461	1,568	8
Public Assembly	3,083	2,164	5,247	194
Schools	454	426	880	96
Institutions	1,198	996	2,194	99
Hazardous	902	569	1,471	35
Business	5,320	2,849	8,169	300
Non-Hazardous	87	45	132	6
Residential	4,843	4,493	9,336	2,864
Vacant Buildings (all)	153	100	253	48
Total	17,147	12,103	29,250	3,650

DIVISION OF FIRE PREVENTION AND INVESTIGATION



ARSON INVESTIGATION
2nd ALARM
PELTON RECREATION CENTER

BUREAU OF FIRE INVESTIGATION

Field Activities:

a) Investigation of Fires:

Special Investigations -----	959
Follow-up Investigations -----	965
Incendiary Origin -----	422
Greater Alarms -----	126
Undetermined Origin -----	30
Burn Cases -----	146
Deaths -----	25

b) Arrests and Dispositions:

Felonies:

Arrests -----	20
Convictions -----	17
Cases Pending (June 30, 1974)-----	3
Acquittals -----	7

Misdemeanors:

Arrests -----	31
Convictions -----	22
Cases Pending (June 30, 1974)-----	0
Acquittals -----	15
Citations -----	1

Juveniles:

Cases held under Juvenile Jurisdiction -----	10
Not Cited -----	61

c) Court Appearances and Testimony ----- 101

d) Special Complaints Referred from Bureau of Fire Prevention:

Investigations -----	91
Follow-up Investigations -----	15

Office Activities:

a) Fire Records -- Compiled and Maintained ----- 30,479

b) Record Search and Copy ----- 6,395

c) \$2,891.00 was collected and deposited in the General Fund for the processing and sale of copies of Fire Reports to insurance companies and other interested parties.

FIRES - 1973-74:

Buildings - Principal & Others	3,812
Vehicles	1,263
Wharves and Piers	42
Boats and Ships	8
Miscellaneous	348
Grass and Rubbish	<u>2,557</u>
Total Fires	8,030

SUMMARY OF RELEVANT FIRE STATISTICS

Occupancies Where Deaths Occurred

Apartments -----	8
Dwellings -----	9
Guest House -----	1
Hospital -----	1
Hotels -----	5
Motel -----	<u>1</u>
Total	25

Fatalities by Age Groups

	<u>No.</u>	<u>Per Cent</u>
Under fifteen years of age -----	1	4%
Fifteen to sixty-four years of age ----	17	68%
Sixty-five years of age and over -----	7	28%
(Male - 12 - Female - 13) <u>Total</u>	25	

Most Frequent Causes of Fire

	<u>San Francisco</u>		<u>United States</u>	
	<u>1972-1973</u>	<u>1973-1974</u>	<u>1972</u>	<u>1973</u>
Smoking and Matches ..	1,813	1,636	128,320	118,240
Electrical	1,657	1,501	143,700	147,300
Heating & Cooking Equipment	1,011	1,111	78,340	82,380

PUBLIC EDUCATION

Public Education:

1) Information Requests:

Each year the number of requests from outside agencies and private parties increases in regard to Fire Prevention and Fire Safety. The energy shortage prompted a further upsurge, particularly in the field of safety in gasoline use. All major television stations and numerous radio stations helped this Division in reaching the public with constructive programs aimed at preventing loss of life and/or property through careless handling of volatile liquids.

The tragic high-rise fires in this nation and South America brought forth another set of inquiries from concerned citizens. The constructive revision of codes applicable to fire protection in this city's multi-storied buildings was explained to the questioning persons.

2) New Programs:

The Bureau of Fire Prevention acquired video equipment which will be used to produce educational tapes, viewable on ordinary household variety television sets for education in fire prevention and public safety for the following groups:

Hospital Staffs
High-Rise Safety Personnel
Multi-Lingual
Aged Housing Areas
Schools

The Bureau of Fire Prevention also has personnel assigned to the Governmental Access Committee, which is working toward possible use of a government television channel.

A program for promoting multi-lingual fire prevention pamphlets was instituted, but is presently held in abeyance awaiting allocation of funds.

FIRE PREVENTION LECTURES

Numerous civic, state and federal agencies, as well as private groups, will be addressed by the Bureau of Fire Prevention personnel.

NATIONAL FIRE PREVENTION WEEK

NATIONAL FIRE PREVENTION WEEK, emphasizing fire safety rules for the public, was nationally recognized the week of October 7 - 13, 1973.

The following events were scheduled in San Francisco's Fire Prevention Week:

Fire Houses Open to the Public

Sunday, October 8
through
Saturday, October 13
10:00 A.M. to 4:00 P.M.

S.F.F.D. Pioneer Museum (Presidio at Euclid)

Sunday, October 8
through
Saturday, October 13
10:00 A.M. to 4:00 P.M.

Fire Prevention Displays

Tuesday, October 9
through
Friday, October 12
Federal Building, 450 Golden Gate Ave. (Main Lobby)
Federal Building, 50 Fulton St. (Main Lobby)

Sunday, October 7
through
Saturday, October 13
The Emporium, Market St. store.

High Rise Evacuation Drill and Emergency Elevator Recapture

Wednesday, October 10
@ 1000 hours
Friday, October 12
@ 1000 hours
Federal Building, 450 Golden Gate Ave.
Federal Building, 50 Fulton St.

Life Saving Lecture

Tuesday, October 9
1000 - 1100 hours
Film: "Breath of Life"
Instruction on Resuscitation
50 Fulton Street (Room 144)

Friday, October 12
1000 - 1100 hours
1400 - 1500 hours
Film: "Breath of Life"
Instruction on Resuscitation
450 Golden Gate Ave. (Rm 13450)

LIAISON

Liaison:

1) Law Enforcement: (Federal Grants)

Following appearance before the Executive Board of the OCJP (Office of Criminal Justice Planning) in Sacramento, a Federal Grant was awarded under the Crime Omnibus Bill for an "Arson Detection and Identification System". A start date of October 1, 1973 was set and a formal study was begun. As of June 30, 1974 the point has been reached wherein equipment is being ordered for placement in the Bureau of Fire Investigation office. The steps taken up to the latter mentioned date included:

- Phase I: Preliminary Reference Study
- Phase II: The Existing System
- Phase III: The Required System
- Phase IIIa: Revisions to the Required System
- Phase IV: Systems Design

Second year funding has been approved and will currently be processed for release by the OCJP.

A third year application is submitted and will come before the MCJC (Mayor's Criminal Justice Council) for action by the Regional Executive Board.

On May 8, 1974 an application for federal funding was made for an "Arson Abatement" program which, if granted, will be an adjunct to the "Arson Identification". This is a triad request, in conjunction with the San Francisco Police Crime Lab and the San Francisco Coroner's Office and will provide modern laboratory equipment, tools for collection of evidence and funds for advance training of Arson Investigators to further increase their expertise.

Other Agencies:

Several occasions arose which demanded cooperation or information exchange with local, state and/or federal units.

PORT FIRE MARSHAL
SAN FRANCISCO PORT COMMISSION

This report summarizes in brief the operational functions of the office of the Port Fire Marshal during the fiscal year 1973-1974. Major fires along the waterfront decreased greatly in comparison to previous fiscal years. There was only one major alarm to Port related properties:

December 23, 1973 Third Alarm Pier 52

During the time covered in this Annual Report, a total of 238 alarms occurred to Port related properties. Overall fire incidents within the Port area have continued unchanged. This becomes obvious when a contrast is provided between fiscal years:

<u>Occupancies and/or Types of Fires</u>	<u>Fiscal Year</u> <u>1972-73</u>	<u>1973-74</u>
Pier deck, super-structure, stringers or piling	44	42
Ship or small craft	10	8
Miscellaneous fires, or response	66	73

Further implementation of the initial recommendations found in the survey of Port Commission waterfront areas of June 1, 1973 have commenced with the razing of the super-structures of Piers 42 and 52.

Fire Prevention activities are the most important single segment of the Port Fire Marshal's duties. Approximately 25 welding and burning permits are issued to certain contractors on a quarterly renewable basis for utility and general maintenance purposes. Other permits and certificates issued that receive on-site inspections include those for hazardous cargoes and fumigations, totaling 1,024 for the fiscal year.

Operations of the Port Fire Marshal are, in all phases, closely coordinated with the offices of the Port Commission, the Chief of the Fire Department, Chief of the Division of Fire Prevention and Investigation, United States Coast Guard, Captain of the Port, Bay Area Waterfront Fire Safety Council and Pier Superintendents of shipping companies.

TRAINING



DIVISION OF TRAINING

During fiscal year 1973-1974, the Division of Training continued its function as the directional center of instruction for the Department.

Training during the year focused on the following:

1. Company Evaluations
2. Instructional Sessions
3. Probationary Training

Company evaluations involve companies performing one or more drill evolutions at the training center. The type drills have been published in training bulletins distributed to stations. This concept of training places responsibility for instruction on the company officer. Written evaluations are made by Division of Training personnel and are on file. Reports of poor evaluations are sent to the company's Battalion Commander as well as its Captain.

Instruction sessions involve direct training of personnel by Fire College staff officers. These sessions included overhauling and ventilation, oxy-acetylene burning, use of new tools or appliances prior to their being put in service, high-rise inspection and conferences, officer orientation of the new "State Fire Report", fire pre-planning of the Federal Building.

Probationary training consists of an 8-weeks course. The course was conducted for three groups of 48 probationary firemen. Of the 144 new men appointed during fiscal year 1973-1974, one man resigned and five men were terminated.

Additional responsibilities of the Division of Training included: assisting the Airport Division in their specialized training; aiding the Bureau of Equipment in the testing of new equipment; budgeting, ordering, and dispensing protective clothing for the firefighting forces; assisting in the licensing of Department drivers; processing identification cards; maintaining training manuals in a current state; planning, researching, testing and evaluating drill evolutions, training courses and the instructional needs of the Department.

<u>Direct Training</u>		<u>Participating</u>
Drills and Evaluations	-	392 Company Crews
Probationary Training	-	144 new members
Man-hours of Direct Training - <u>43,891</u>		

Maintenance of, and instruction in the departmental breathing apparatus program is under the jurisdiction of the Technical Supervisor of Breathing Equipment. He is, additionally the department specialist in emergency resuscitation and supervises instruction within the Department on both subjects. As public service, and on request from various organizations, the Technical Supervisor conducts a program of Public Education on Emergency Resuscitation.

Summary of Training performed by the Supervisor of Breathing Equipment is detailed as follows:

In-Service Fire Companies trained:

109 Companies - 545 men - 1,090 man hours

Public Education Training:

104 Lectures - 4,584 persons - 9,168 man hours

There are now 47 resuscitators in service, distributed to our 44 Engine companies, 2 Rescue Units and the Fireboat.

DIVISION PUBLIC EDUCATION AND INTERNAL CONTROL



DIVISION OF PUBLIC EDUCATION AND INTERNAL CONTROL

In February 1974, the Division of Public Education and Internal Control was established as a component of the Specialized Auxiliary Service. It is staffed by an Assistant Chief, a Director of Community Relation, a Public Information Officer, a Manager of the F.L.A.M.E. Program and such other officers and members as designated by the Department head that are necessary to conduct the activities of the Division. Functional supervision is maintained over a 30 member speakers panel of Chief and Company Officers.

The functions of the Division are divided into the following specific operations:

1. Coordinator of Education

a) Fire Science Technology

The curriculum in Fire Science Technology, a two (2) year course of study, is designed to provide training for two groups of students; those who plan to seek employment as members of city and county fire departments and other governmental agencies dealing with fire prevention, fire suppression and other aspects of fire science technology; and those who plan to seek private employment as safety instructors in industry, insurance adjusters, fire protection technicians, fire equipment salesmen, fire equipment installers and architectural assistants. The program is open to all interested students.

After completing certain requirements which include maintaining an average of C (2.00 grade point average), complete 60 units with a minimum of 18 units in Fire Science, the student is eligible to receive the Associate in Science degree and the Award of Achievement in Fire Science Technology.

b) Civil Service Advisory Board

The San Francisco Community College has appointed a Civil Service Advisory Board. The function of the Board is to improve communications and program development between the college district and the various municipal departments.

Under this program, members of Rescue Squad #1, #2 have recently completed the course Emergency Medical Training #1 and have received certificates of Achievement (82 Hours). Plans are being formulated for their enrollment for Emergency Medical Training #2 in the Fall of 1974. It is contemplated to extend this Emergency Medical Training to other members of the Firefighting Service.

2. Internal Control

The establishment of mechanisms by which leadership and employees of an organization can be assured of goal achievement (and coincidentally resources properly used) is one of the foremost concern in administration.

2. Internal Control (Cont.)

The essentials in the control process are:

- a) the knowledge of objectives or goals
- b) the securing of information with regard to progress toward those objectives
- c) making decisions as to change in course direction resulting from information received
- d) securing information as to progress in new direction and follow-up

3. Community Relations

It is becoming increasingly evident, with the broadening of Community Relations activities, that community residents and firefighters alike are mutually experiencing the joys of person-to-person contact that has been somewhat limited in recent years. More and more, with the confidence that willing representation will be forthcoming, schools, community groups and other organizations are requesting Fire Department participation in community oriented programs.

a) Mayor's Summer Youth Employment Program

For a period of nine (9) weeks, twenty-three (23) young adults were assigned to the Fire Department as participants in the Mayor's Summer Youth Employment Program. Teams of (2) Summer Employees were assigned to Battalion Districts, rotating from District to District each week.

b) Youth Employment and Manpower Development Training Programs

The necessity to train and retrain the unemployed or under-employed are the objectives of these programs. Our Department and the program participants have mutually benefited from their respective assignments.

Assignments to the Fire Department have been numerous. Many of the assignees have gained the experience and skills necessary to pass higher level examinations or to be assigned to more demanding positions with accelerated rewards.

c) School Visitation

It has almost become commonplace for school children to see fire apparatus on school yards. Request for visits and apparatus demonstrations by teachers and school administrators are being made at a substantially increased rate. This is an indication that the school visitation program is received by the educators as well as entertainment for the school children.

3. Community Relations (Cont.)

The Fire Department, in its effort toward curtailment of the false alarm rate, views this as an ideal opportunity. The appeal of fire trucks to school children and firefighters exhibiting their skills in apparatus demonstrations while at the same time calling attention to false alarm dangers could conceivably achieve this end.

d) Special Events

Christmas dinner was prepared and served by members of Station No. 9. The affair was excellent as evidenced by a statement made by a member of the participating companies, "at no time in my fifteen years in the Department have I ever participated in anything that I considered more rewarding".

Cookout and apparatus demonstration with the Innes Avenue Home Owners Association, Engine 17, Truck 17 and Rescue Squad No. 1 participated.

e) Meetings

Regularly attended community organization meetings. When requested, attended meetings of the Civil Service Commission and other governmental agencies.

4. Fire League Athletic and Musical Events (F.L.A.M.E.)

Fiscal year 1973-74 was a period of further growth within the F.L.A.M.E. program. With the continuing financial support of the members of the San Francisco Fire Department, it was able to involve over 2,300 youngsters in various events, this past year. Since the inception of F.L.A.M.E. five years ago almost 7,000 children have participated in its activities.

a) Baseball

Forty-seven (47) teams in Bronco, Pony and Colt baseball. This involves over 700 boys, ages 10 through 16.

b) Softball

Twelve (12) teams, providing summer activity for 180 children ages 9 and 10.

c) Basketball

The second annual F.L.A.M.E. Holiday Invitational Tournament was the largest primary school basketball function held in San Francisco. A total of 80 teams and almost 1,000 players participated.

c) Basketball (Cont.)

In addition, a three-man basketball "hunch" league was sponsored by F.L.A.M.E. in the Outer Mission-Ingleside area. Approximately 75 boys took part.

d) Soccer

Nineteen teams with almost 300 boys played under F.L.A.M.E. sponsorship last year.

Through the dedication of many firemen and boys from within the F.L.A.M.E. Program, assistance was given to the Western Special Olympics for handicapped children and the Sunshine Orthopedic School for the physically handicapped.

F.L.A.M.E. was able to expand and provide new services, only because firefighters are willing to donate their time and energies in working with, and guiding our youth.

During the fiscal year, the operation of F.L.A.M.E. was financed from funds contributed by over 1,300 firefighters, as well as friends of F.L.A.M.E. The Mayor's Youth Bowl Committee which derives money from a Football Game by the San Francisco 49'ers and an opponent during the pre-season schedule made a sizeable contribution which will be received annually. A total of approximately \$19,500 was received through contributions and memberships.

5. Toy Program - San Francisco Fire Department

This program is a joint venture between the Fire Department Administration and San Francisco Firefighters Local #798. Funding is provided by Local #798 and manpower requirements are provided by Fire Department volunteers. It is an activity with obvious rewarding and lasting results.

The program is an endeavor by members within the department. Skills and enthusiasm are mustered with beneficial effect where-by toys are collected, repaired, renewed and distributed to needy families of the community. An added feature is the participation in the Christmas Toy Chest which is shared with the U.S. Marine Corps and the Salvation Army.

At its inception, only a few families were provided with toys. In 1973 more than ten thousand children and their parents enjoyed a happier Christmas Season through this distribution program.

DIVISION PUBLIC EDUCATION
AND
INTERNAL CONTROL



1974 FLAME
INVITATIONAL BASKETBALL
CHAMPS

6. Labor Relations

The Chief, Division of Public Education and Internal Control is the Chief of Department's Labor Relations representative. In order to deal effectively and intelligently with labor unions, an area of specialization is mandatory. Complexities of Labor Relation negotiations and their time consuming quality places an excessive burden on the Department head. A Centralization in such a specialist is common with all industrial and commercial firms throughout the nation as it is with other city departments. As time goes on and more sectors of administration feel the impact of collective bargaining and other union pressures, local government will have to rely increasingly upon more professionalized labor relations staffs.

The ultimate goals in Labor Relations with respect to management employee relationships is to achieve bi-lateral agreement with maximum productivity. To date, the Department Labor Relations representative has met and conferred with firefighters union officials on numerous occasions, with some positive and some yet unresolved results.

On December 26, 1973, a new Memorandum of Understanding was negotiated with Local #798, International Firefighters Union, which will be in effect for three years. The new Memorandum is basically the same as the previous one except that the old tolerance factor of sixty is gradually reduced to thirty-five when all vacancies have been filled. Application of the tolerance factor is computed as follows:

Full daily firefighting complement	445
Tolerance	<u>35</u>
Minimum daily firefighting complement	410

The Board of Supervisors, on February 4, 1974, adopted the Memorandum of Understanding between Firefighters Union, Local #798, the Mayor and the Fire Commission, relating to union recognition, grievance and impasse procedures and a non-strike agreement. It was agreed upon that the contract would be binding for a period of three (3) years.

Beginning March 14, 1974, a Labor Relations course was conducted by the University of California and sponsored by the City and County of San Francisco for municipal executives. The Chief of Department, the Deputy Chief of Department and the Assistant Chief, Division of Public Education and Internal Control attended. The course consisted of four hours of lectures each week, an all day workshop, and ended on May 17, 1974.

7. Public Information Officer

The activities of the Public Information Officer during the 1973-1974 fiscal year involved but not limited to the following:

1. As a primary function of the fire department to maintain liaison with the news media in San Francisco and segments in other areas relative to the department's activities and programs.
2. Orient various groups of persons in governmental capacities and educational functions and coordinate activities relating to visiting dignitaries and public officials.
3. Coordinate and distribute information pertaining to department operations and employment policies with outside departments, private groups and individuals.
4. Assist in development of department programs and evaluation of various functions, provide information on various department programs and activities in public safety and service.

FIRE FIGHTING AND RESCUE SERVICES



FIRE FIGHTING AND RESCUE SERVICES

Headquarters
Chief Officers

DIVISION NO. 1

Station No. 13 115 Drumm Street

Division No. 1

Battalion No. 1	Station No. 2	1340 Powell Street
Battalion No. 2	Station No. 36	109 Oak Street
Battalion No. 3	Station No. 35	676 Howard Street

DIVISION NO. 2

Station No. 5 1301 Turk Street

Division No. 2

Battalion No. 4	Station No. 38	2150 Calif. Street
Battalion No. 5	Station No. 21	1443 Grove Street
Battalion No. 7	Station No. 31	441 - 12th Avenue
Battalion No. 8	Station No. 40	2155 - 18th Avenue

DIVISION NO. 3

Station No. 7 2300 Folsom Street

Division No. 3

Battalion No. 6	Station No. 11	3880 - 26th Street
Battalion No. 9	Station No. 15	1000 Ocean Avenue
Battalion No. 10	Station No. 9	2245 Jerrold Avenue

Division of Airports	S. F. International Airport
	Airport Rescue Company No. 1, No. 2 and No. 3

Department Buildings

The various units of the Department are stationed in the following buildings:

- 1 Department Headquarters
- 44 Company Stations
- 2 Airport Company Stations
- 1 Division of Training
- 1 Communications Center
- 1 Assignment Center (located at Department Headquarters)
- 1 Bureau of Equipment Headquarters
- 2 Pumping Stations (High Pressure System)
- 1 Reservoir Station (High Pressure System)
- 2 Warehouses (Storage)
- 1 Deactivated Company Station
- 1 Pipe Yard Station (High Pressure System)

Organization

The 1973-74 organizational plan of the firefighting divisions, battalions, companies and special units of the Department is detailed in the Organization Chart contained in this report. Personnel assigned thereto are detailed in the Personnel Chart of this report. Firefighting personnel continued to work a 48.7 hour week. Basic tour of duty is a 24-hour shift.

Apparatus and Equipment

An \$8,491,000 Bond Issue passed by the voters on November 2, 1971 has provided the citizens of San Francisco with increased, modernized fire protection. Special emphasis has been placed on acquiring new firefighting apparatus and equipment. Apparatus purchased through the Bond Issue consists of:

Triple Combination Pumpers

		<u>In Service</u>
Engine Company No. 26	(T.C. 550)	April 29, 1974
Engine Company No. 6	(T.C. 551)	February 22, 1974
Engine Company No. 16	(T.C. 561)	May 14, 1974
Engine Company No. 7	(T.C. 563)	February 20, 1974
Engine Company No. 14	(T.C. 564)	March 1, 1974
Engine Company No. 41	(T.C. 565)	February 20, 1974
Engine Company No. 32	(T.C. 567)	March 27, 1974
Engine Company No. 31	(T.C. 568)	March 25, 1974
Engine Company No. 42	(T.C. 569)	February 27, 1974
Engine Company No. 37	(T.C. 570)	February 27, 1974

Aerial Ladder Trucks

Truck Company No. 11 - Tractor 626	Trailer 760	100Ft. - February 11, 1974
Truck Company No. 7 - Tractor 627	Trailer 761	100Ft. - February 22, 1974
Truck Company No. 15 - Tractor 628	Trailer 762	100Ft. - April 23, 1974
Truck Company No. 1 - Tractor 629	Trailer 763	100Ft. - March 22, 1974
Truck Company No. 8 - Aerial Platform-(Snorkel 811)	-85Ft.-At Central Shop-	

Mini Pumpers

Engine Company No. 44	(M.P. 802)	April 10, 1974
Engine Company No. 43	(M.P. 803)	April 10, 1974
Engine Company No. 32	(M.P. 804)	April 10, 1974
Engine Company No. 26	(M.P. 805)	April 10, 1974

Three Squirt hose tenders and one Cliff Rescue unit under Bond disbursement will be received during fiscal year 1974-75.

In addition to the above, the following apparatus was obtained by way of 1972-73 fiscal budget requests:

Triple Combination Pumpers

		<u>In Service</u>
Engine Company No. 15	(T.C. 562)	At Central Shop
Engine Company No. 40	(T.C. 566)	March 18, 1974
Engine Company No. 8	(T.C. 571)	April 25, 1974

Apparatus and Equipment (Cont.)

Aerial Ladder Truck

In Service

Truck Company No. 16 - Tractor 630 Trailer 764 100Ft. - At Central Shop
for Outfitting

Granted in the 1973-74 budget are three triple combination pumpers and one aerial ladder truck. These are now on order from fire apparatus manufacturers who received bid awards from the City Purchaser.

The purchase of apparatus by means of various sources of revenue places our first line apparatus within the desired fifteen year life span. Also, the Department will now have fairly modern reserve apparatus to be used when regular units are undergoing repairs, or to be utilized in times of disaster or multiple major alarm fires when the off-duty shift has been recalled.

Two automatic transmissions were obtained by supplemental appropriation near the end of 1973. During the same period, revenue sharing funds provided \$81,304 for equipment and \$5,192 for materials and supplies necessary for emergency operation functions.

Major items gained through revenue sharing included but were not limited to the following:

- Forty-five 5-gallon cans of Liquid Foam
- Eight Hundred and Fifty Hose Spanners
- Nine Handi-Talkies
- Five Class 6 4-Door Passenger Automobiles
- Four Rescue Breathing Apparatus
- Apparatus and Vehicle Outfitting
- Ten Resuscitators-Inhalators
- Four White Lights
- One 1-Ton Hoist
- Fire Safety Brochures
- Sixty-six First Aid Kits

MERITORIOUS COMMENDATIONS

On January 28, 1974, the Fire Commission accepted the recommendations of the Fire Department Merit Advisory Board concerning Meritorious Awards to the following Department members:

Class "A" Awards

Captain Frank T. Blackburn	Fireman Gary D. Tishma
Fireman Peter J. Ackenheil	Fireman Donald M. Walsh
Fireman Terry Millard	Fireman James F. Williams

Class "B" Awards

Operator Michael A. Sullivan	Fireman Jean F. Lacues
Fireman Richard P. Allen	Fireman Allan J. Leonard
Fireman William F. Koehler	Fireman Louis J. Ucciferro

Class "C" Awards

Battalion Chief John J. Mullin	Fireman Ralph Galindau
Lieutenant John J. Bogue, Jr.	Fireman Albert L. Gervasio
Lieutenant Jeremiah R. Guiney	Fireman Jack J. Hickey
Lieutenant Donald E. Horgan	Fireman Michael P. Kenny
Lieutenant Herbert M. Osuna	Fireman Lee J. Lane
Lieutenant Frank J. Pagano	Fireman Edward A. Mitchell
Operator George D. Dwyer	Fireman Roy R. Parodi
Operator Maurice P. Murray	Fireman Stephen F. Parrott
Operator Royle H. Perry	Fireman John D. Pell
Fireman Ariston S. Armada	Fireman William H. Roberts
Fireman Roger T. Bross	Fireman John L. Rogers
Fireman James R. Cavellini	Fireman Anthony M. Simi
Fireman Eugene E. Eden	Fireman Albert E. Ward
Fireman James B. Fex	Fireman Gerald J. White
Fireman Robert L. Fisher	Fireman Joseph M. Wright
Fireman John P. Flaharty	

Class "D" Awards

Lieutenant Leonard J. Colbert	Fireman Robert M. Dickson
Inspector August A. Pierucci	Fireman Michael J. McKinley
Inspector Robert C. Willett	Fireman James Pierce
Fireman James T. Cronin	

Letters of Commendation

Captain Donald V. Brady	Fireman Lloyd R. Ricci
Fireman John M. Hartley	Fireman John Tizio
Fireman Michael C. Kiser	

MERITORIOUS COMMENDATIONS

CLASS "A" AWARD



FIREMAN
PETER ACKENHEIL



CAPTAIN
FRANK BLACKBURN



FIREMAN
TERRY MILLARD

MERITORIOUS COMMENDATIONS

CLASS "A" AWARD



FIREMAN
GARY D. TISHMA



FIREMAN
DONALD WALSH



FIREMAN
JAMES WILLIAMS

MERITORIOUS COMMENDATIONS

CLASS "B" AWARD



FIREMAN
ALLEN LEONARD



FIREMAN
RICH ALLEN



FIREMAN
LOUIS UCCIFERRO

MERITORIOUS COMMENDATIONS

CLASS "B" AWARD



FIREMAN
JEAN LACUES



OPERATOR
MICHAEL A. SULLIVAN

Letters of Commendation

Engine Company # 5	Engine Company #36
Engine Company #15 (Now 38)	Truck Company # 5
Engine Company #21	Truck Company # 6
Engine Company #33	Truck Company #15
Engine Company #34	Rescue Squad # 2 (Eng.38)

Unit Citations

Fireman Michael E. O'Leary
Fireman John J. Sherry

Engine Company #21	Truck Company # 3
	Rescue Squad # 2 (Eng.38)

Meritorious Award Justification

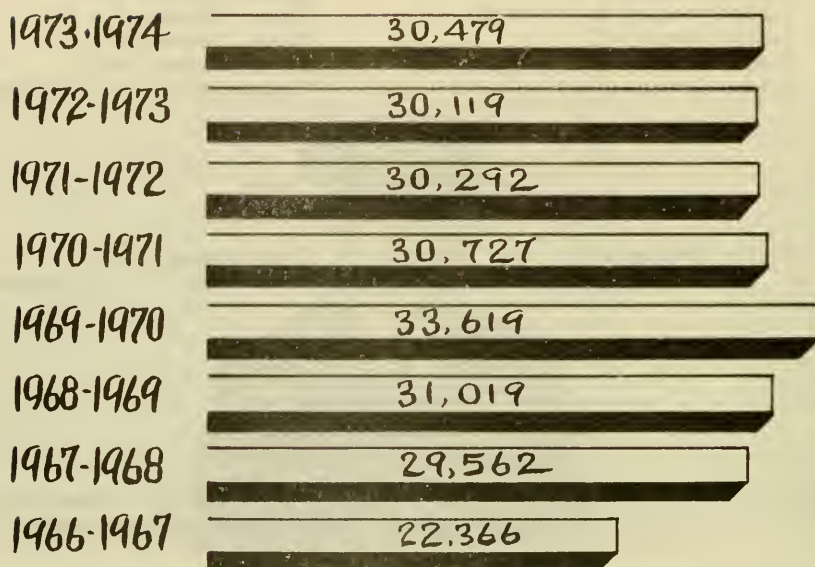
- Class "A" - A voluntary action in relation to the saving of human life under the most adverse conditions and at extreme personal risk.
- Class "B" - A voluntary action in relation to the saving of human life under dangerous conditions and at great personal risk.
- Class "C" - An action of exceptional character and associated with unusual ability, personal initiative and courage.
- Class "D" - Assistant or Battalion Chief's commendation for recognition of Company, group or individual performance beyond that normally expected at an emergency situation.

Individual or individuals who have been a credit to the Department in their activities on behalf of community affairs.

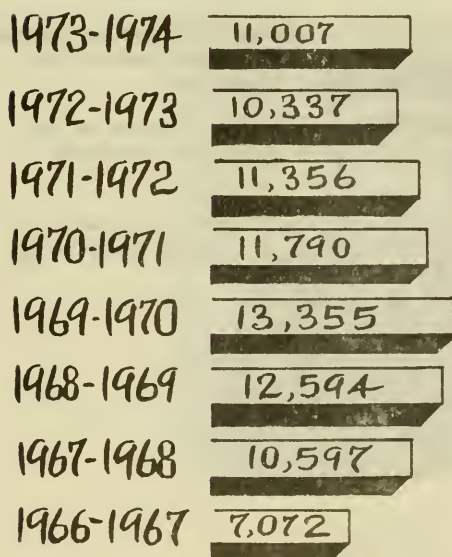
A lesser award than stipulated above may be awarded to a Company, group or individual, and this award shall be in the form of a letter of commendation.

EIGHT YEAR RECORD

TOTAL ALARMS



FALSE ALARMS



FIRE FIGHTING AND RESCUE SERVICES

Recapitulation of Fire Department Response, 1973-1974.

a) Transmission of Alarms:

	<u>Bell Alarms</u>	<u>Still Alarms</u>	<u>No Alarm Fire</u>	<u>Total Alarms</u>
July, 1973	1,564	1,496	5	3,065
Aug., 1973	1,356	1,152	3	2,511
Sep., 1973	1,356	1,144	3	2,503
Oct., 1973	1,487	1,175	7	2,669
Nov., 1973	1,218	1,011	5	2,234
Dec., 1973	1,189	1,033	1	2,223
Jan., 1974	1,162	1,084	4	2,250
Feb., 1973	1,084	936	5	2,025
Mar., 1974	1,343	1,022	6	2,371
Apr., 1974	1,353	1,090	4	2,447
May, 1974	1,562	1,307	5	2,874
June, 1974	<u>1,833</u>	<u>1,471</u>	<u>3</u>	<u>3,307</u>
TOTALS:	16,507	13,921	51	30,479

b) Actual Fires:

	<u>Bell Alarms</u>	<u>Still Alarms</u>	<u>No Alarm Fire</u>	<u>Total Fires</u>
July, 1973	469	670	5	1,144
Aug., 1973	358	378	3	739
Sep., 1973	281	341	3	625
Oct., 1973	308	267	7	582
Nov., 1973	265	239	5	509
Dec., 1973	258	222	1	481
Jan., 1974	277	211	4	492
Feb., 1974	266	204	5	475
Mar., 1974	260	193	6	459
Apr., 1974	272	242	4	518
May., 1974	401	469	5	875
June, 1974	<u>492</u>	<u>636</u>	<u>3</u>	<u>1,131</u>
TOTALS:	3,907	4,072	51	8,030

c) False Alarms:

	<u>Bell Alarms</u>	<u>Still Alarms</u>	<u>Total False</u>
July, 1973	961	39	1,000
Aug., 1973	830	18	848
Sep., 1973	911	25	936
Oct., 1973	1,015	24	1,039
Nov., 1973	809	8	817
Dec., 1973	785	9	794

FIRE FIGHTING AND RESCUE SERVICES

c) False Alarms (continued):

	<u>Bell Alarms</u>	<u>Still Alarms</u>	<u>Total False</u>
Jan., 1974	715	11	726
Feb., 1974	669	14	683
Mar., 1974	941	20	961
Apr., 1974	938	12	950
May, 1974	1,012	17	1,029
June, 1974	<u>1,173</u>	<u>51</u>	<u>1,224</u>
TOTAL FALSE ALARMS	10,759	248	11,007

d) Street Fire Alarm Boxes Activated:

	<u>F.A. Boxes Activated *</u>	<u>F. A. Boxes False</u>	<u>Street F.A. Boxes</u>	<u>Street F. A. Boxes False</u>
July, 1973	1,546	961	1,233	892
Aug., 1973	1,335	830	982	778
Sep., 1973	1,347	911	1,078	866
Oct., 1973	1,469	1,015	1,102	934
Nov., 1973	1,205	809	890	750
Dec., 1973	1,178	785	861	710
Jan., 1974	1,134	715	779	650
Feb., 1974	1,061	669	783	628
Mar., 1974	1,325	941	1,026	872
Apr., 1974	1,333	938	1,050	888
May, 1974	1,549	1,012	1,253	982
June, 1974	<u>1,813</u>	<u>1,173</u>	<u>1,565</u>	<u>1,116</u>
TOTALS:	16,295	10,759	12,602	10,066

*This figure is minus Greater Alarms, Special Calls and No Alarms.

Of the 16,295 Fire Alarm Boxes activated during the fiscal year 1973-1974, 12,602 were activated by citizens from Street Fire Alarm Boxes, of which 10,066 were False, for an average of 79 per cent. The difference between the total fire alarm boxes activated and the number of street fire alarm boxes activated -- 3,693 -- denotes the number of box alarms determined by the dispatcher.

e) Special Calls

In Conjunction with Other Alarms ----- 86

f) Major Alarms

Second Alarms ----- 92
 Third Alarms ----- 28
 Fourth Alarms ----- 5
 Fifth Alarm ----- 1
 TOTAL ----- 126

g) Classification of Buildings in which Fires Occurred:

Type 1 -----	501
Type 2 -----	19
Type 3 -----	910
Type 4 -----	36
Type 5 -----	<u>2,346</u>
TOTAL BUILDING FIRES -----	3,812

h) Extent of Fires: Yes No

Confined to Floor of Origin -----	3,676	136
Confined to Building of Origin -----	3,733	79

i) Deaths at Fires:

Male -----	12
Female -----	<u>13</u>
TOTAL -----	25

Type of Response: (Fiscal Year 1973-1974)

Building Fires:

Theatres and Motion Pictures -----	8
Public Assembly -----	194
Schools -----	96
Institutions -----	99
Hazardous -----	35
Business -----	300
Non-hazardous -----	6
Residential -----	2,864
Vacant Buildings -----	48
Other, Miscellaneous Buildings -----	<u>162</u>

Sub-Total (Total Building Fires) ----- 3,812

Vehicle Fires ----- 1,263

Wharf and Pier Fires ----- 42

Boat and Ship Fires ----- 8

Grass and Rubbish Fires ----- 2,557

Miscellaneous Fires ----- 348

TOTAL FIRES ----- 8,030

Type of Response (continued):

*Emergencies Other than Fire (Including 672 Resuscitations) ----	11,093
Vicinities -----	137
Greater Alarms -----	126
Special Calls -----	86
False Alarms -----	<u>11,007</u>
GRAND TOTAL OF ALARMS (TOTAL RESPONSE) -----	30,479

*Emergencies Other than Fire (Including 672 Resuscitations)

The Department responded to 11,093 alarms for other than fire service during the past year. These alarms included resuscitations, first-aid, lock-outs, cliff rescues, automobile accidents, people trapped in elevators, cave-ins, industrial accidents and a wide variety of other emergencies.

Services of the Department are increasingly sought for resuscitation and first-aid assistance. The responses involving resuscitations totaled 672 within the City of San Francisco and 213 at the San Francisco International Airport. First-aid responses by Engine, Truck and Rescue companies expanded to 666 within the City and to 470 listed as miscellaneous first-aid cases by the Division of Airports.

Every firefighter is trained and up-dated continually in resuscitation and first-aid techniques. Swift response to any incident of this type is assured through the strategic Fire Station locations throughout San Francisco. Normally, a company will be on the scene within three minutes, after having received an emergency call, to administer first-aid and/or resuscitation assistance.

Every firefighting company is now equipped with a standard first-aid kit. Also, resuscitators-inhalators are now distributed to forty-four Engine companies, two Rescue Squads and the Fireboat.

FIRE FIGHTING
AND
RESCUE SERVICES



2nd ALARM
LEAVENWORTH & O'FARRELL



RESCUE OPERATION LANDS END
ASSISTED BY COAST GUARD

FIRE FIGHTING
AND
RESCUE SERVICES



RESCUE OPERATION
UPPER GREAT HIGHWAY



Salvage Operations

Salvage operations are a primary function in the San Francisco Fire Department. Quick and efficient application of salvage equipment has been responsible for greatly reducing the fire and property loss during the past year.

- a) Salvage operations are started as soon as the Department arrives at the scene of a working fire and are continually applied even after the fire is extinguished.
- b) Salvage operations are essential in the reduction of damage and property loss from other than fire such as wind, storm and rain damage, broken water pipes and other water leaks.

Every truck company now carries seven salvage and three roof covers. Engine companies carry two salvage covers each. Within the next fiscal year all companies will be salvage equipped as required by the National Fire Protection Association.

The following salvage operations were performed during the fiscal year 1973-74:

Salvage covers spread	525
Roof covers spread	217
Sprinkler heads replaced	208
Roofing paper (Rolls)	40
Polyethylene (Rolls)	55
Rental fees for covers	\$6,978.75

Fire Safety Survey - 1973-1974

The Fire Safety Survey Program is a three-phase public service operation of the Fire Department involving the assignment of in-service companies of the firefighting service to field inspections. The three phases of the program are:

- a) Home inspection
 - b) Structural survey
 - c) Area orientation
- a) Home inspection is part of the program designed to detect and correct the common fire hazards that may be present in the home, and be of assistance to the residents in making their home fire safe thus reducing dwelling fire and life loss.
 - b) Structural Survey involves companies familiarizing themselves with the various firefighting features of larger buildings in their respective areas. Such features as sprinkler systems, standpipe systems, fire escapes and building egress are evaluated.

Fire Safety Survey (Cont.)

- c) Area orientation involves the location of hydrants, fire alarm boxes, narrow or congested streets and cisterns for fire use in the companies area.

Home Inspections

Total Homes Contacted	2,817
Total Homes Admitted	962
Total Homes "Not In"	1,480
Total Homes Declined	375

Structural and Area Surveys

Total Buildings and Areas Surveyed	1,275
Total Company Inspection Hours	2,550

Hazards Detected

Electrical	93
Smoking - Matches	18
Flammable Liquids	51
Stoves - Heating	6
Rubbish Storage	154
Miscellaneous	58

Water Rescue and Firefighting Scuba Unit

The Diving Unit continued operations throughout the year, as in the past. During reconstruction of Station 3, the Water Rescue Unit has been temporarily quartered at Station 16. The unit consists of 35 members, under the command of a Captain. The need for the diving unit has proved itself especially with the fire potential along San Francisco's waterfront. It is anticipated that the unit will continue to expand its services to the Department and the citizens of San Francisco, S.F. Int'l Airport and other governmental agencies.

- Summary of Activities -

Emergency Response --- 23	Emergency service -- 40 hours
Drills/Public	
Appearances --- 8	service -- 24 hours
	Total Service -- 64 hours

Harassment - Incidents

During the fiscal year of 1973-74, twelve (12) incidents involving harassment occurred.

FIRE FIGHTING
AND
RESCUE SERVICES



3rd ALARM
THIRD AND EVANS



2nd ALARM
SOUTH PARK

Firefighting continues to be one of the most hazardous occupations in the United States. The following is a list of disabling or lost time injuries suffered by members of the Department during the fiscal year 1973-74 indicating nature of injury, part of body affected and the activity taking place at the time of injury:

Nature of Injury

1. Burns except eyes, including chemical burns	19
2. Burns, eyes	13
3. Lacerations & Punctures	56
4. Strains - Sprains - Dislocations	443
5. Hernias	5
6. Crushing injuries	3
7. Fractures or suspected fractures	31
8. Foreign body in eye, eye irritation, conjunctivitis, etc.	17
9. Bruises & Contusions	155
10. Upper respiratory disease (including smoke inhalation) ..	27
11. Dermatitis (skin disorder).....	8
12. Other occupational disease	16
13. Not elsewhere classified	5

Part of Body Affected

1. Eyes	19
2. Head - Face - Neck	57
3. Heart & Possible Heart	17
4. Back - Spine	200
5. Trunk - Other than Back	107
6. Upper Extremities.....	165
7. Lower Extremities	233
8. Not Elsewhere Classified	5

Activity Involved

1. At Fires	444
2. Other Emergencies	29
3. Responding on Apparatus	42
4. Returning on Apparatus	6
5. Accident in Quarters	218
6. Training	26
7. Not Elsewhere Classified	19

Disability injuries in the above listed category, "Responding on Apparatus" and "Returning on Apparatus", are primarily from stepping on the apparatus or stepping off the apparatus during preparation to leave quarters and upon the return to quarters after responding to an alarm.

DIVISION OF AIRPORTS



DIVISION OF AIRPORTS

Personnel

The Division of Airports of the San Francisco Fire Department is assigned to the San Francisco International Airport. The members of this Division are experienced firefighters trained in the techniques of aircraft rescue and fire suppression. Authorized personnel for 1973-1974 is as follows:

1 - H50 - Assistant Chief	Division Chief
1 - H10 - Operator	Training Officer and Administrative Aide
1 - H 4 - Fire Inspector	Fire Prevention and Investigation
3 - H30 - Captain	Company Commanders
6 - H20 - Lieutenants	Company Officers
45 - H 2 - Firefighters	Crash-Fire-Rescue Crewmen

Organization

The Division of Airports is composed of a Division headquarters and three (3) subordinate Airport Companies. The Division office and Airport Companies 1 and 3 are located in Rescue Station #1 facing Alpha taxiway between Sierra and Romeo taxiways. Airport Company #2 is in Station #2 located 750 feet northwest of the intersection of taxiways Charlie and Echo.

The Division Chief, Training Officer and Fire Inspector work a five (5) day week, 0800 to 1700, and are subject to recall during their off-duty status. All other personnel work the standard tour of duty for the San Francisco Fire Department.

Training

Training of Division personnel is conducted daily. Supervision is under the Division Chief, and training is conducted by the Training Officer and Company Officers. The guidelines for training are those recommended in applicable Federal Aviation Administration Advisory Circulars and the National Fire Science Training Center. Fire training for other than Fire Department personnel is conducted by the Training Officer.

Training (Cont.)

Manhours of Training

Direct Training	4,298 hrs.
Related Training	2,464 hrs.

Materials Expended in Training

Foam 6 per cent AFF	1,810 gal.
Dry Powder	2,610 lbs.
CO2	550 lbs.
Halon	40 lbs.
Fuel	8,100 gal.

Due to efforts toward pollution control, hot-fire drills have been reduced.

Emergency Alarms

Classification of alarms is as follows: Alert #1 is a potential accident or an actual emergency, but aircraft is not expected to arrive for at least five (5) minutes; Alert #2 is an accident in progress or imminent. Code 10 is Bomb threat.

Alert #1	258	<u>First Aid Response</u>	
Alert #2	14	Resuscitations	213
Fire Alarms	361	Cardiac Compressions	48
First Aid	731	Misc. First Aid	<u>470</u>
Fuel Spills	86		
Code 10	<u>27</u>	<u>Total</u>	731
	1,477		
Service	1,462:20		

Fire Prevention and Investigation

Inspections	313
Reinspections	302
Plan Checking Meetings and Alerations	204
Welding and Burning Permits	67
Investigation of Fires & Emergency Night Calls	14
San Mateo Fire Inspectors Meetings	14

DEPARTMENT CHAPLAINS



REVEREND
CHARLES J. DURKIN



REVEREND
RONALD GRUMM



RABBI
MARTIN WEINER

In Memoriam

NAME	RANK	DATE	STATUS
Sullivan, John P.	Fireman	8/9/73	Retired
Lee, Howard F.	Accountant	8/10/73	Active
Webb, Thomas F.	Battalion Chief	8/22/73	Retired
Ervin, Leo J.	Fireman	8/27/73	Retired
Lynch, Thomas L.	Fireman	8/31/73	Retired
Tilton, Albert	Fireman	9/11/73	Retired
Toomey, James C.	Fireman	9/12/73	Retired
O'Dowd, Edward E.	Battalion Chief	10/4/73	Retired
Coffman, James G.	Lieutenant	10/24/73	Active
Ross, Bernard C.	Fireman	10/28/73	Retired
Ryan, John J.	Fireman	11/2/73	Retired
Gonzales, Lawrence	Fireman	11/20/73	Active
Ruane, Lawrence J.	Fireman	11/22/73	Retired
Upp, Robert F.	Fireman	11/23/73	Active *
Burke, Edmond G.	Fireman	12/3/73	Retired
Butler, Orrin C.	Fireman	12/5/73	Retired
Whaley, Walter J.	Fireman	12/25/73	Retired
Howard, John	Lieutenant	12/27/73	Retired
Stenberg, Arthur A.	Fireman	12/30/73	Retired
Cavellini, Lee L.	Battalion Chief	1/21/74	Retired
Herzo, George	Lieutenant	2/1/74	Retired
Gloistein, Arthur H.	Fireman	2/8/74	Retired
Connolly, Patrick J.	Fireman	2/13/74	Retired
Nyhan, Leo W.	Fireman	2/18/74	Retired
Cody, Thomas A.	Battalion Chief	2/21/74	Retired
Murphy, Edward R.	Fireman	3/2/74	Retired
Cooney, Martin M.	Fireman	3/11/74	Retired
Andelich, Luke	Lieutenant	3/15/74	Retired
Doherty, John J.	Lieutenant	3/31/74	Retired
Podesta, Julius S.	Fireman	4/1/74	Retired
Stevenson, John A.	Engineer	4/1/74	Retired
Bailliff, George H.	Fireman	4/12/74	Active
Ackenheil, Peter J.	Fireman	5/26/74	Retired
O'Connell, James	Captain	6/6/74	Retired
McCook, John F.	Lieutenant	6/7/74	Retired

(* On Duty)

